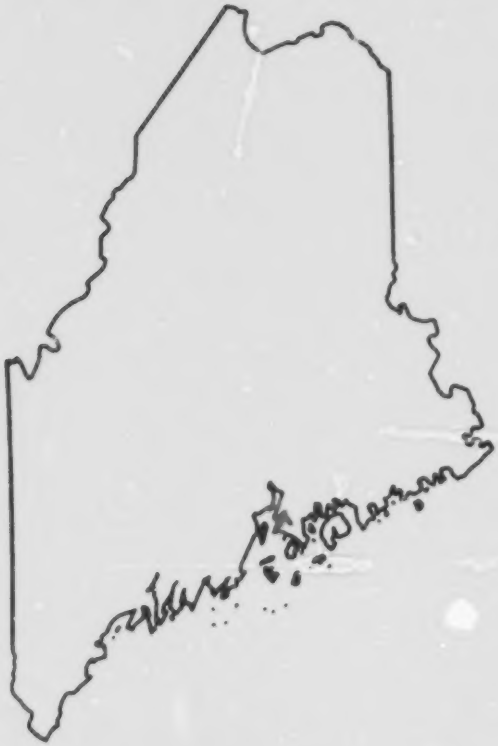
Water Resources Data
Maine
Water Year 1984

ORIGINAL

COMPLETED



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-84-1
Prepared in cooperation with the State of Maine
and with other agencies

BEST COPY AVAILABLE

CALENDAR FOR WATER YEAR 1984

1983

OCTOBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

NOVEMBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

DECEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1984

JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

MARCH

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

APRIL

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

MAY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	21	23
24	25	26	27	28	29	30

JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

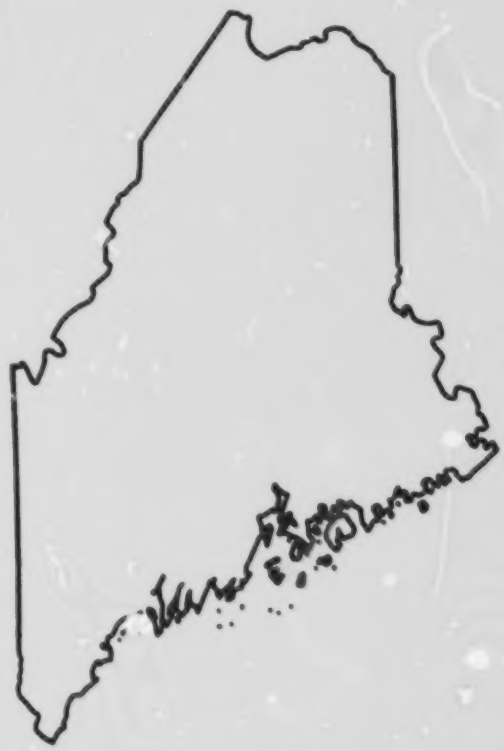
SEPTEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

BEST COPY AVAILABLE

Water Resources Data
Maine
Water Year 1984

by C.R. Haskell, W.P. Bartlett, Jr., W.B. Higgins, W.J. Nichols, Jr.



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-84-1
Prepared in cooperation with the State of Maine
and with other agencies

BEST COPY AVAILABLE

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to
Chief Maine Office
Water Resources Division
U.S. Geological Survey
26 Ganneston Drive
Augusta, ME 04330

1985

BEST COPY AVAILABLE

PREFACE

This volume of the annual hydrologic data report of Maine is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface-and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

James T. Adamik
Richard A. Fontaine
Gordon R. Keezer
Robert G. Lippert
Thomas J. Maloney
Mary A. Morgan
Richard A. Morrill

Gloria L. Morrill prepared tables and illustrations for the report.

The staff of the Maine Office dedicates this report to the memory of C. Richard Haskell, who worked in Augusta for 25 years and was responsible for the final preparation of the Annual Data Report for the last twelve years.

This report was prepared in cooperation with the State of Maine and with other agencies under the general supervision of Derrill J. Cowing, Chief, Maine Office.

BEST COPY AVAILABLE

50272-101

REPORT DOCUMENTATION PAGE	1. REPORT NO. USGS/WRD/HD-85-232	2.	3. Recipient's Accession No.
4. Title and Subtitle: Water Resources Data Maine Water year 1984			5. Report Date: May 1985 6.
7. Author(s): C. R. Haskell, W. P. Bartlett, Jr., W. B. Higgins, and W. J. Nichols, Jr.			8. Performing Organization Rept. No. USGS-WRD-ME-84-1
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division 26 Ganneston Drive Augusta, Maine 04330			10. Project/Task/Work Unit No. 11. Contract(C) or Grant(G) No. (C) (G)
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division 26 Ganneston Drive Augusta, Maine 04330			13. Type of Report & Period Covered: Annual - Oct. 1, 1983 to Sept. 30, 1984 14.

15. Supplementary Notes

Prepared in cooperation with the State of Maine and with other agencies.

16. Abstract (Limit: 200 words)

Water resources data for the 1984 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of wells. This report contains discharge records for 53 gaging stations; stage only for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 11 gaging stations; and water levels for 17 observation wells. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies.

17. Document Analysis a. Descriptors

*Maine, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement: No restriction on distribution. This report may be purchased from: National Technical Information Service, Springfield, Virginia 22161	19. Security Class (This Report): UNCLASSIFIED	21. No. of Pages: 144
	20. Security Class (This Page): UNCLASSIFIED	22. Price

(See ANSI-Z39.18) See Instructions on Reverse OPTIONAL FORM 272 (4-77) (Formerly NTIS-35) Department of Commerce

BEST COPY AVAILABLE

CONTENTS

	Page
Preface	III
List of gaging stations, in downstream order, for which records are published	VI
Introduction	1
Cooperation	1
Hydrologic conditions	3
Definition of terms	3
Downstream order and station numbers	7
Numbering system for wells and miscellaneous sites	8
Special networks and programs	8
Explanation of stage and water-discharge records	8
Collection and computation of data	8
Accuracy of field data and computed results	10
Other data available	10
Explanation of water-quality records	11
Collection and examination of data	11
Water analysis	11
Water temperature	11
Sediment	11
Revisions	12
Explanation of ground-water level records	12
Collection of the data	12
Access to WATSTORE DATA	12
Publications on techniques of water-resources investigations	13
Gaging station records	14
Discharge at partial-record stations and miscellaneous sites	123
Measurements made at miscellaneous sites	123
Miscellaneous temperature and specific conductance determinations	126
Ground-water records	132
Ground-water level records	132
Quality of ground-water records	140
Index	143

ILLUSTRATIONS

Figure 1.	Map showing location of data collection stations	2
2.	Comparison of discharge at three long-term index gaging stations during 1983 water year with median discharge for period 1951-80	4
3.	System for numbering wells and miscellaneous sites	8

TABLES

Factors for converting inch-pound units to International System units (SI) inside back cover

BEST COPY AVAILABLE

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

Letter after station name designates type of data: (d) discharge, (c) chemical (b) biological, (m) microbiological, (t) water temperature, (e) elevation, stage, or contents

Page

NORTH ATLANTIC SLOPE BASINS
ST. JOHN RIVER BASIN
St. John River at Ninemile Bridge (d) 14
Big Black River near Depot Mountain (d) 15
St. John River at Dickey (d) 16
Allagash River near Allagash (d) 17
St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick (d) 18
Fish River:
Clayton Stream at outlet of Clayton Lake (d) 19
Bald Mountain Brook near Bald Mountain (d) 20
Bishop Mountain Brook near Bishop Mountain (d) 21
Fish River at inlet Fish River Lake (d) 22
Fish River near Fort Kent (d) 23
St. John River below Fish River, at Fort Kent (d) 24
St. John River at Van Buren (cm) 25
Aroostook River near Masardis (d) 27
Aroostook River at Washburn (d) 28
Aroostook River at Caribou (cm) 29
ST. CROIX RIVER BASIN
St. Croix River at Vanceboro (d) 31
Grand Lake Stream at Grand Lake Stream (d) 32
St. Croix River at Baring (d) 33
St. Croix River at Milltown (cmt) 34
DENNYS RIVER BASIN
Dennys River at Dennysville (d) 42
PLEASANT RIVER BASIN
Pleasant River near Epping (d) 43
NARRAGUAGUS RIVER BASIN
Narraguagus River at Cherryfield (dcm) 44
PENOBSCOT RIVER BASIN
Penobscot River near Mattawamkeag (d) 47
Mattawamkeag River near Mattawamkeag (d) 48
Piscataquis River near Dover-Foxcroft (d) 49
Penobscot River at West Enfield (d) 50
Penobscot River at Eddington (dcmt) 51
Reservoirs in Penobscot River basin (e) 60
SHEEPSCOT RIVER BASIN
Sheepscot River at North Whitefield (d) 61
KENNEBEC RIVER BASIN
Moose River (head of Kennebec River):
Moosehead Lake at East Outlet (e) 62
Kennebec River at The Forks (d) 63

BEST COPY AVAILABLE

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED--CONTINUED

NORTH ATLANTIC SLOPE BASINS--Continued — Page

KENNEBEC RIVER BASIN--Continued
Kennebec River--Continued
Kennebec River at Bingham (d) ... 64
Carrabassett River near North Anson (d) ... 65
Wilson Stream at East Wilton (d) ... 66
Sebasticook River near Pittsfield (d) ... 67
Johnson Brook at South Albion (d) ... 68
Kennebec River at North Sidney (dcmt) ... 69
Cobbosseecontee Stream:
Mill Stream at Winthrop (d) ... 78
Cobbosseecontee Lake at East Winthrop (e) ... 79
Cobbosseecontee Stream at Gardiner (d) ... 80
Togus Stream at Togus (d) ... 81
Reservoirs in Kennebec River Basin (e) ... 82
ANDROSCOGGIN RIVER BASIN
Androscoggin River:
Umbagog Lake:
Magalloway River:
Diamond River near Wentworth Location, NH (d) ... 83
Androscoggin River at Errol, NH (d) ... 84
Androscoggin River near Gorham, NH (d) ... 85
Wild River at Gilead (dcm) ... 86
Androscoggin River at Rumford (d) ... 89
Swift River near Roxbury (d) ... 90
Nezinscot River at Turner Center (d) ... 91
Gulf Island Pond near Lewiston (ct) ... 92
Little Androscoggin River near South Paris (d) ... 99
Androscoggin River near Auburn (d) ... 100
Androscoggin River at Brunswick (cm) ... 101
Reservoirs in Androscoggin River basin (e) ... 103
ROYAL RIVER BASIN
Royal River at Yarmouth (d) ... 104
PRESUMPSCOT RIVER BASIN
Presumpscot River at Outlet of Sebago Lake (d) ... 105
Presumpscot River near West Falmouth (dcmt) ... 106
SACO RIVER BASIN
Saco River near Conway, NH (d) ... 115
Ossipee River at Effingham Falls, NH (d) ... 116
Ossipee River at Cornish (d) ... 117
Saco River at Cornish (dcm) ... 118
MOUSAM RIVER BASIN
Mousam River near West Kennebunk (d) ... 121
PISCATAQUA RIVER BASIN
Salmon Falls River (head of Piscataqua River) at Milton, NH (d) ... 122

BEST COPY AVAILABLE

WATER RESOURCES DATA FOR MAINE, 1984

INTRODUCTION

Water resources data for the 1984 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and ground-water levels. This report contains discharge records for 53 gaging stations; stage only records for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 11 gaging stations; and water levels for 17 observation wells. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements. Locations of gaging stations and observation wells are shown in figure 1. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maine.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface water supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series, then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of surface waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-water levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report ME-84-1." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the Chief, Maine office, at the address given on the back of the title page of this book, or by telephone at (207) 622-8208.

COOPERATION

The U.S. Geological Survey and organizations of the State of Maine have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality and ground-water records since 1957. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Maine Department of Conservation, Geological Survey, R. E. Anderson, Commissioner.

Maine Department of Environmental Protection, H. E. Warren, Commissioner.

Maine Department of Transportation, Dana F. Conners, Commissioner.

Cobbossee Watershed District, T. U. Gordon, Executive Director.

Androscoggin Valley Council of Governments, John J. Jaworski, Executive Director.

Town of Wilton, N. U. Gould, Chairman, Board of Selectmen.

Assistance in the form of funds or services was given by the U.S. Department of State in collecting records published herein for 3 gaging stations and 1 water-quality station; and U.S. Veterans Administration for 1 gaging station.

The following organizations contributed funds and services through the requirements of the Federal Energy Regulatory Commission:

Bangor Hydro-Electric Company
Boise Cascade
Central Maine Power Company
Cumberland Power Corporation
Gardiner Hydro Company
Georgia - Pacific Corporation
Great Northern Paper Company
Kennebec Water Power Company
Maine Public Service Company
S.D. Warren Company
Swift River Company
Union Water Power Company

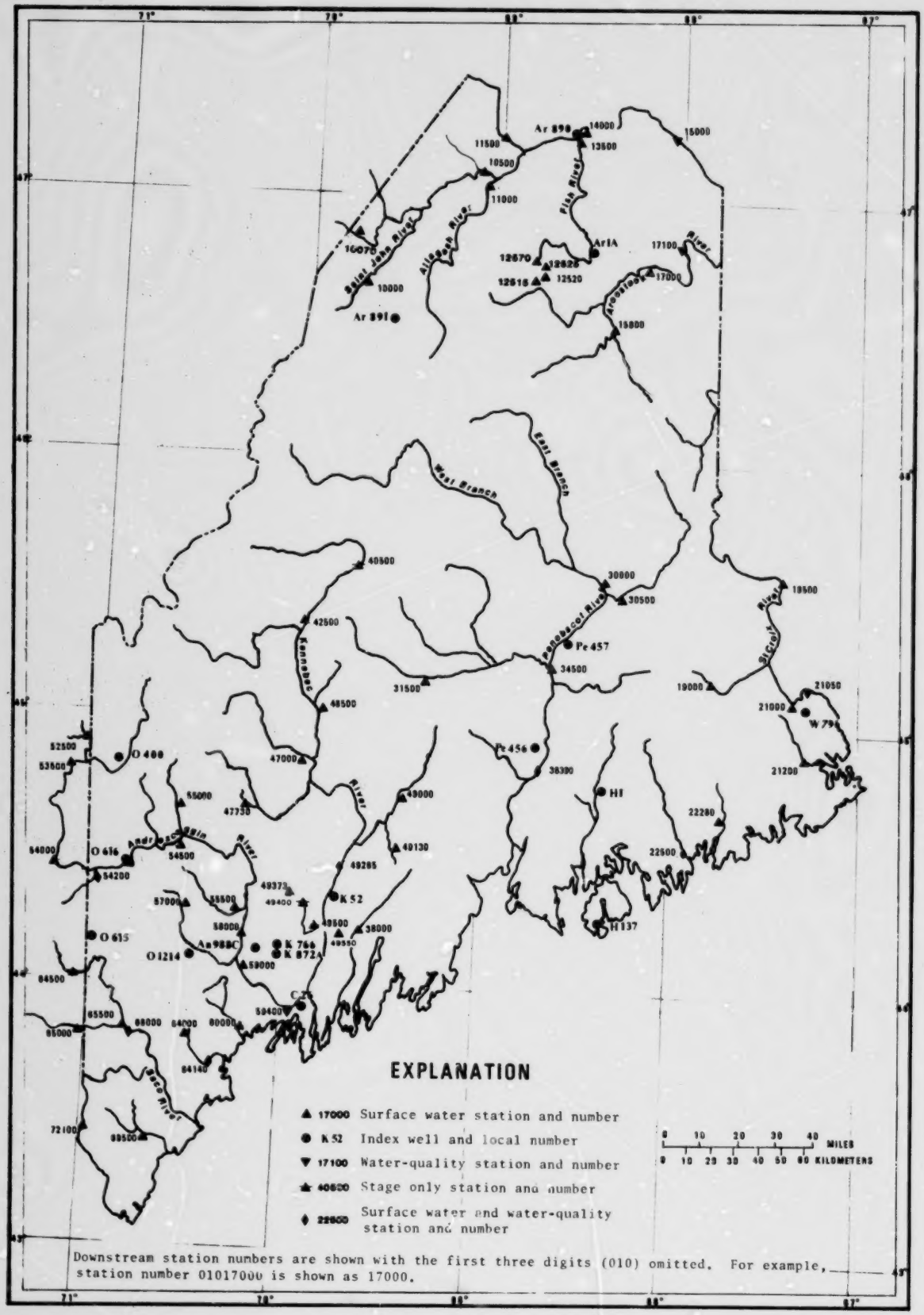
The following organizations aided in collecting records:

Bangor Hydro-Electric Company
Georgia-Pacific Corporation
Maine Public Service Company
S.D. Warren Company

Organizations that supplied data are acknowledged in gaging station descriptions or in footnotes to tables.

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States) and records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated herein as "international gaging stations."

BEST COPY AVAILABLE



BEST COPY AVAILABLE

Figure 1.—Location of data collection stations

SUMMARY OF HYDROLOGIC CONDITIONS

Runoff for the 1984 water year was excessive (in the upper quartile of record) throughout Maine. At the four index gaging stations - St. John River below Fish River at Fort Kent, Piscataquis River near Dover-Foxcroft, Little Androscoggin River near South Paris, and Saco River at West Buxton - runoff ranged from 130 percent to 172 percent of normal for the year. Total runoff of the Piscataquis River near Dover-Foxcroft gaging station was the largest during the period of record (1902-1984), the second largest of the period of record (1913-1924, 1931-1984) for the Little Androscoggin River near South Paris, and the fifth highest of the period of record (1926-1984) for the St. John River below Fish River at Fort Kent. Two significant high-runoff events occurred nearly statewide during the year; the first was during the last week of November and the second was during the last days of May and the first few days of June.

Flows were deficient at the start of the water year except in the southern part of the State, where streamflow and ground-water levels were in the normal range. Although October percipitation averaged only about 75 percent of normal, streamflow moved into the normal range except in the east-central area of the State, where it remained deficient (in the lower quartile of record). Ground-water levels were below normal in the northern half of the State and near-normal elsewhere.

Precipitation during November was greater than normal. Streamflow and ground-water levels rose and were above-normal, except in the far northern part of the State, where they were near normal. Heavy rains, which fell during the 24-26th of the month, caused localized flooding in many coastal and southern lowland areas of the State. Monthly precipitation totaled 16.85 inches at Bar Harbor and 16.50 inches at Camden-Rockport. The 13.50 inches of precipitation which fell at Portland was the largest total recorded there in any month since records began in 1871.

Streamflow and ground water levels remained above-normal over most of the State during December. During January, about one-half the normal amount of precipitation fell and temperatures generally remained below freezing. As a result, streamflow receded into the normal range throughout the entire State. Ground-water levels continued to be above-normal except in southern and western Maine where they receded to near normal. Above-average precipitation and warm temperatures in February caused streamflow to rise into the excessive range Statewide. Ground-water levels also rose and were above normal, except in west-central Maine, where they remained near normal. Streamflow and ground-water levels remained above normal in the coastal area during March, but receded and were near normal over the remainder of the State. During April, streamflow was excessive except in northern Maine, where it was near normal. Ground-water levels were above-normal in southwestern and northern Maine and normal elsewhere. Above-average precipitaiton fell during May and June but ground-water conditions remained relatively unchanged. During May, streamflow was near normal except in the southwest, where it was above-normal. Heavy rains during the period May 27 through June 2 caused instantaneous peak discharges of record at gaging stations on the Kennebec River at The Forks and at Bingham. Peak discharges exceeded those having a recurrence interval of 100 years. About the same time, peak discharges with recurrence interval of about 15 years and 20 years, respectively, occurred on the Androscoggin River, at Errol, New Hampshire, and Gorham, New Hampshire, and a peak discharge having a recurrence interval of about 25 years occurred on the Penobscot River at West Enfield. In June, streamflow rose to above-normal throughout the State and remained there through July. New maximum daily and mean-monthly discharges of record for June occurred at the index station on the Saco River at West Buxton and for July at the index station on the St. John River below Fish River at Fort Kent. Ground-water levels were above normal over most of the State in July.

Precipitation averaged 50 percent of normal for the last two months of the water year. Streamflow receded into the normal range throughout the State in August and was deficient in most of the State in September. Ground-water levels followed the same trend and, at the end of the water year, were below normal over all but the southern part of the State, where they were near normal.

Usable storage in seven reservoir systems in Maine, which totalled 100,000,000,000 cubic feet at the beginning of the water year, was 56 percent of capacity and 96 percent of normal for that date. Usable storage decreased to 80,000,000,000 cubic feet by the end of October. By the end of December, storage had increased to 140,000,000,000 cubic feet, which was 137 percent of normal for that date. Storage then declined and was 78,000,000,000 cubic feet by the end of March. The above normal precipitation and runoff in April and May increased storage to 184,000,000,000 cubic feet by the end of May. Storage declined during the rest of the water year and at the end of September was 101,000,000,000 cubic feet; 57 percent of capacity and 96 percent of normal for that date.

Figure 2 shows the monthly and yearly mean discharges at three long-term index stations in Maine during the 1984 water year in comparison with median discharges for the 1951-1980 period.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of Units (SI) on the inside of the back cover.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells or springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warmblooded animals. They are often used as indicators of the sanitary quality of water. These bacteria are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ±0.2°C on M-FC medium (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestines of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. These bacteria are defined as all organisms which produce red or pink colonies within 48 hours at 35°C ±1.0°C on KF Streptococcus agar (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 mL of sample.

BEST COPY AVAILABLE

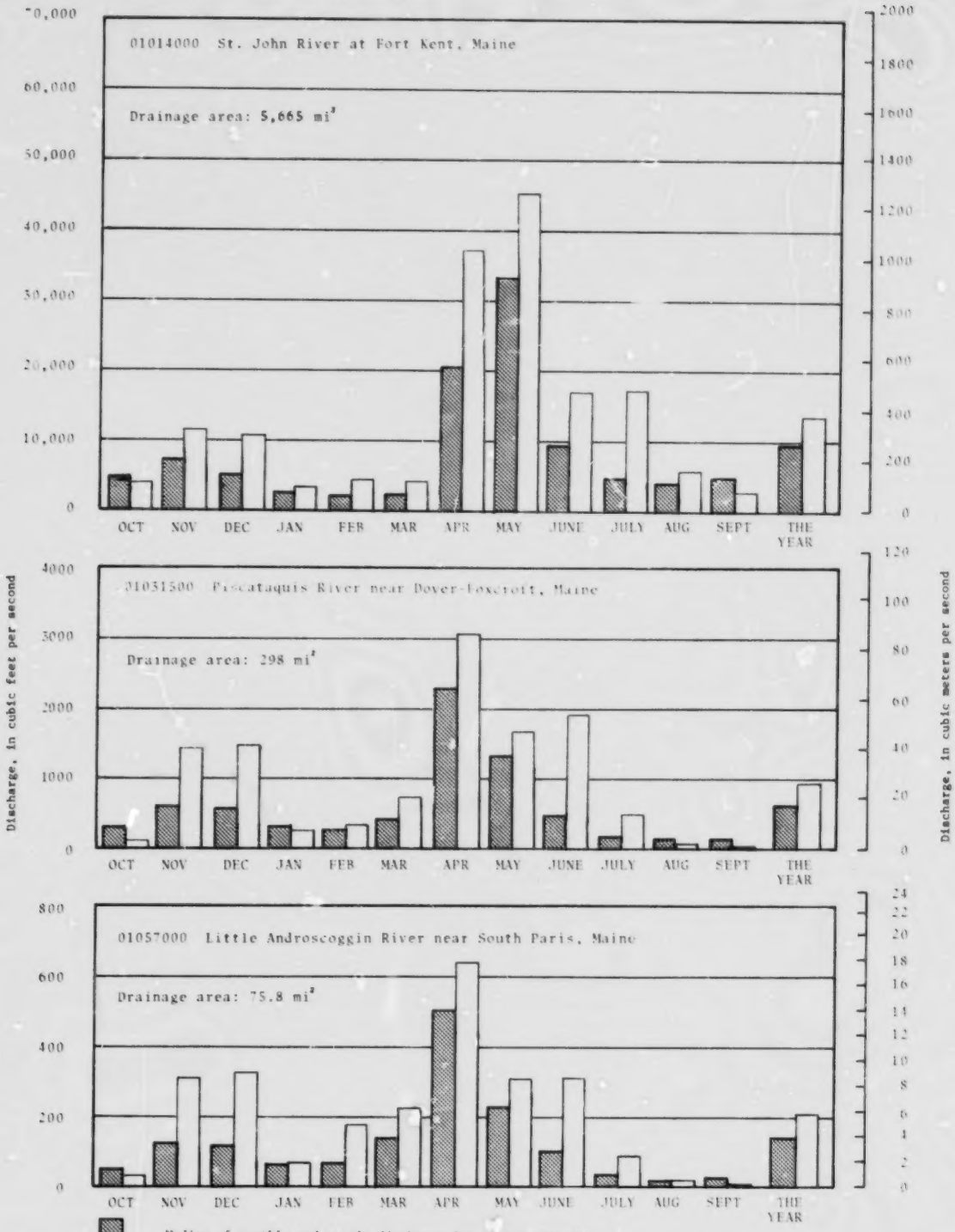

01014000 St. John River at Fort Kent, Maine
Drainage area: 5,665 mi²
01031500 Piscataquis River near Dover-Foxcroft, Maine
Drainage area: 298 mi²
01057000 Little Androscoggin River near South Paris, Maine
Drainage area: 75.8 mi²
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEPT THE YEAR
Discharge, in cubic feet per second
Discharge, in cubic meters per second
Median of monthly and yearly discharge for period 1951-80.
Monthly and yearly mean discharge for 1984 water year.

Figure 2.-- Comparison of discharge at three long-term index gaging stations during 1984 water year with median discharge for period 1951-80.

BEST COPY AVAILABLE

Bed material is the unconsolidated material of which the bottom of a stream, lake, pond, reservoir, or estuary is composed.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, about 646,000 gallons, or 2,447 cubic meters.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow of stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT³/S, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or .02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is a permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in a sample as the mass (micrograms) of constituent per unit volume (liter) of sample. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in a sample. Milligrams per liter represents the mass of constituent ent per unit volume of sample. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derieved from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

BEST COPY AVAILABLE

Partial-record station is a particular site where limited streamflow and (or) water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. Classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

pH is a symbol denoting the negative logarithm (base 10) of the hydrogen ion concentration of a solution; pH values range from 0 to 14--the lower the value, the more acid is the solution; i.e., the more hydrogen ions it contains.

Picocurie (PCI, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or by volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for estimating the dissolved-solids content of the water. Commonly, concentration of dissolved solids (in milligrams per liter) is about 65 percent of specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and the volume of water per unit of time flowing in a channel.

Streamflow is discharge that occurs in a natural channel. Although the term "discharge" can be applied to flow of a canal, the word "streamflow" uniquely describes discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

BEST COPY AVAILABLE

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. The term is used only when analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Total (as used in tables of chemical analysis):

Total, recoverable is the amount of a given constituent in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total is total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. The term is used only when analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. Knowledge of the expected form of the constituent in the sample, as well as analytical methodology used, is required to judge when results should be reported as "total." (Note that the word "total" does double duty here, indicating the sample consists of a water-suspended sediment mixture and the analytical method determines all the constituent in the sample.)

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to previously published District annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction has been made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 01022500, which appears just to the left of the station name, includes the 2-digit part number "01" plus the 6-digit downstream order number "022500".

BEST COPY AVAILABLE

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system or latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 3 below.

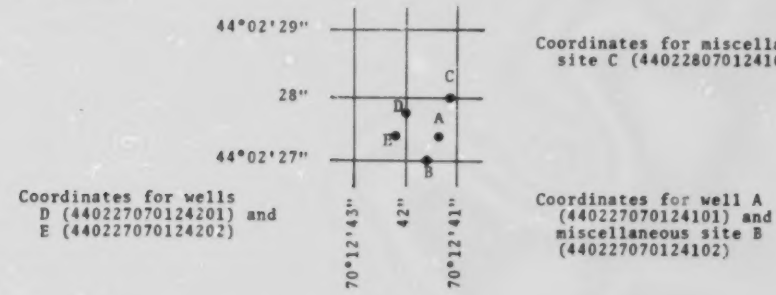


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected twice a year to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A8.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

BEST COPY AVAILABLE

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins.

Data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use; the datum of the present gage referred to National Vertical Datum, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 6.

Information pertaining to the accuracy of the discharge records and to conditions that affect the natural flow at the gaging station, and to supplemental water-quality data collected during the year is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record nor for stations where changes in water development during the period of record cause the figure to have little significance.

BEST COPY AVAILABLE

Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), and in inches (line headed "IN"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Attention is called to periods for which the discharge is computed or estimated by special methods because of no gage-height records, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, or indefinite stage-discharge relation, or of any unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. Methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Tabulations of miscellaneous data follow the information for continuous record stations and are in two tables; the first is a tabulation of measurements made at miscellaneous sites and the second a tabulation of water temperature and specific conductance data obtained at the time discharge measurements were made at continuous record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of true value; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as discharge measurements, gage-height records, and rating tables is on file in the district office. Also, most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the subdistrict office.

BEST COPY AVAILABLE

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records for these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and (or) other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

The chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent the water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between the measurement of pH in the field and the determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based on hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

BEST COPY AVAILABLE

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to records of quantities of suspended sediment, records of periodic measurement of particle-size distribution of suspended sediment and bed material are included.

Revisions

If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment are standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements are reported to the nearest hundredth of a foot with reference to land-surface datum (lsd), which is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom); and water levels in wells not equipped with recording gages are reported for the end of each month.

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

BEST COPY AVAILABLE

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

BEST COPY AVAILABLE

NORTH ATLANTIC SLOPE BASINS

ST. JOHN RIVER BASIN

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME

LOCATION.--Lat 46°42'00", long 69°42'59", Aroostook County, Hydrologic Unit 01010001, on right bank in T. 12, R. 15, 0.1 mi downstream from Ninemile Brook, 0.4 mi downstream from site of Ninemile Bridge, and 11 mi northwest of Clayton Lake Post Office.

DRAINAGE AREA.--1,341 mi².

PERIOD OF RECORD.--Discharge: October 1950 to current year. October 1950 monthly discharge only, published in WSP 1721.
Water-quality records: Water years 1975 to 1981.
Specific conductance: April 1975 to September 1980.
Water temperatures: April 1975 to September 1980.
Suspended sediment discharge: October 1975 to September 1976.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 931.26 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--34 years, 2,362 ft³/s (23.92 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,400 ft³/s May 1, 1974, gage height, 12.63 ft; maximum gage height, 20.01 ft Apr. 2, 1976 (backwater from ice); minimum, 59 ft³/s Sept. 5, 1953; minimum gage height, 0.25 ft Sept. 5, 1953, Sept. 11, 12, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,800 ft³/s July 17, gage height, 11.23 ft; maximum gage height, 12.11 ft Apr. 15 (backwater from ice); minimum discharge, 185 ft³/s Sept. 19, 20, gage height, 0.73 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	399	3440	1200	670	1070	1500	24900	16500	2910	1320	2050
2	241	382	2910	1150	670	1020	1400	22900	14200	2200	1050	1780
3	220	407	2660	1090	665	970	1330	17900	10400	1380	878	1280
4	208	1260	2030	1030	660	900	1350	13700	6900	797	734	969
5	288	3270	1910	1000	660	850	1500	11500	4840	523	618	775
6	3050	3290	1920	980	655	835	1850	10900	3700	490	530	662
7	5490	3210	1900	950	655	810	2400	11500	2980	2480	501	571
8	4610	3240	1880	930	650	780	3000	11500	2740	18200	654	489
9	3610	2950	1860	900	650	770	3400	13100	2660	15500	1570	424
10	2940	2670	1840	880	650	750	3650	14900	2220	9120	1290	374
11	2300	2730	1820	870	655	745	3900	13000	1790	4560	962	338
12	1830	5860	2000	850	660	740	4250	11200	1440	5570	1220	309
13	1530	7220	2250	840	665	735	4750	11800	1210	10300	2120	293
14	1520	5420	2800	820	675	730	5500	10400	1200	7210	2010	276
15	1590	3810	3500	810	685	725	6700	9670	1540	7270	1670	254
16	1490	3020	4000	800	760	720	9000	8100	1770	19000	2680	233
17	1270	2670	3750	790	870	720	12500	6590	1490	31300	2760	216
18	1060	3210	3550	770	1050	725	14000	5410	1170	21000	2090	200
19	902	3050	3250	760	1380	730	14400	4510	1630	13200	1560	190
20	778	2570	2950	750	1750	750	14000	3990	4310	7620	1190	208
21	675	2470	2650	740	2000	780	13700	3700	3670	4170	946	455
22	599	3190	2400	730	1900	860	13600	3340	2570	2550	763	986
23	535	4050	2250	720	1720	1000	12400	3030	1880	1620	633	876
24	493	3820	2050	710	1600	1400	14600	8220	1420	2050	578	684
25	469	4180	1900	705	1450	2250	18500	9470	1440	5030	559	564
26	446	7100	1750	700	1350	2650	19400	6950	9330	4120	545	486
27	410	7210	1650	695	1240	2500	19500	5150	12000	2890	490	442
28	393	6230	1550	690	1180	2250	20300	3830	9070	2760	423	487
29	380	5080	1450	685	1130	2050	21400	3080	5590	2610	376	452
30	381	3940	1350	680	---	1850	22800	5120	3510	2100	363	400
31	408	---	1280	675	---	1650	---	12400	---	1650	550	---
TOTAL	40388	107858	72500	25900	29305	35315	286580	301760	135270	212180	33633	17723
MEAN	1303	3595	2339	835	1011	1139	9553	9734	4509	6845	1085	591
MAX	5490	7220	4000	1200	2000	2650	22800	24900	16600	31300	2760	2050
MIN	208	382	1280	675	650	720	1330	3030	1170	490	363	190
CFSM	.97	2.68	1.74	.62	.75	.85	7.12	7.26	3.36	5.10	.81	.44
IN.	1.12	2.99	2.01	.72	.81	.98	7.95	8.37	3.75	5.89	.93	.49

CAL YR 1983 TOTAL 1001995 MEAN 2745 MAX 31600 MIN 101 CFSM 2.05 IN. 27.80
WTR YR 1984 TOTAL 1298412 MEAN 3548 MAX 31300 MIN 190 CFSM 2.65 IN. 36.02

BEST COPY AVAILABLE

01010070 BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME

LOCATION.--Lat46°53'38", long 69°45'08", Aroostook County, Hydrologic Unit 01010001, on left bank at the Six Mile Landing Road Bridge, 4 mi northeast of Depot Mountain, 26.8 mi upstream from mouth.

DRAINAGE AREA.--171 mi^2.

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 775 ft, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 01	1545	* 3950	12.00	July 17	0600	2990	10.67
May 10	0445	3020	10.72				

Minimum discharge, 17ft^3/s Sept. 19, backwater from beaver dam; minimum gage height, 3.58 ft Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	93	415	160	73	115	145	3870	1650	138	99	75
2	37	77	365	150	72	110	140	3290	1100	104	78	68
3	36	94	330	140	71	105	130	2100	662	75	63	49
4	35	376	300	135	70	100	135	1530	453	59	54	37
5	70	421	275	130	73	95	150	1360	381	189	44	31
6	235	425	260	125	77	92	225	1360	334	329	65	29
7	425	442	250	120	80	90	450	1660	291	1490	108	27
8	300	486	240	120	83	87	725	1690	456	2050	226	25
9	220	466	235	115	81	84	710	2370	542	1290	168	24
10	170	428	230	110	79	82	650	2830	372	626	118	23
11	140	535	225	110	78	80	600	1910	257	348	179	22
12	120	1180	220	105	76	79	575	1560	203	1240	224	21
13	119	1060	270	100	77	77	610	1640	166	1400	224	20
14	178	694	350	100	81	76	900	1370	184	935	219	19
15	223	442	450	97	90	76	1300	1170	241	775	277	19
16	193	307	510	95	110	74	1800	935	215	2260	489	18
17	145	308	540	93	135	75	2250	754	170	2760	378	18
18	115	382	490	91	165	76	2350	626	132	1470	232	18
19	92	347	420	88	205	77	2050	545	228	786	148	17
20	75	360	375	87	220	78	1830	511	480	514	116	30
21	62	413	340	85	200	83	1750	468	369	375	95	55
22	49	400	300	84	180	98	1380	418	241	289	72	90
23	44	413	275	83	170	115	1440	483	168	243	56	77
24	41	386	260	82	160	190	2190	1690	122	300	65	67
25	40	616	240	81	145	300	3030	1380	234	266	62	58
26	39	776	225	79	140	290	2720	793	623	207	49	52
27	35	783	210	78	130	255	2660	526	545	205	38	47
28	34	656	200	77	125	220	2950	389	369	224	30	44
29	47	550	185	76	120	190	3240	329	261	205	25	41
30	91	475	175	75	---	170	3570	626	193	156	25	39
31	106	---	165	74	---	155	---	1420	---	120	41	---
TOTAL	3558	14391	9325	3145	3366	3794	42655	41603	11642	21428	4067	1160
MEAN	115	480	301	101	116	122	1422	1342	388	691	131	38.7
MAX	425	1180	540	160	220	300	3570	3870	1650	2760	489	90
MIN	34	77	165	74	70	74	130	329	122	59	25	17
CFSM	.67	2.81	1.76	.59	.68	.71	8.32	7.85	2.27	4.04	.77	.23
IN.	.77	3.13	2.03	.68	.73	.83	9.28	9.05	2.53	4.66	.88	.25

WTR YR 1984 TOTAL 160134 MEAN 438 MAX 3870 MIN 17 CFSM 2.56 IN. 34.84

BEST COPY AVAILABLE

01010500 ST. JOHN RIVER AT DICKEY, ME

LOCATION.--Lat 47°06'44", long 69°05'25", Aroostook County, Hydrologic Unit 01010001, on right bank at downstream side of highway bridge at Dickey, 0.4 mi downstream from Little Black River, and 2.8 mi upstream from Allagash River.

DRAINAGE AREA.--2,680 mi^2.

PERIOD OF RECORD.--July to November 1910 and April to November 1911 (published as "near Dickey"), September 1946 to current year.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 590.66 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to December 1911, nonrecording gage at site 2,300 ft downstream at different datum. September 1946 to April 1962, water-stage recorder at site 1,300 ft downstream at same datum.

REMARKS.--Records good except those for winter period which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--38 years (water years 1947-84), 4,836 ft^3/s (24.50 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91,700 ft^3/s Apr. 29, 1979, gage height, 19.13 ft; maximum gage height, 29.16 ft Apr. 30, 1974 (backwater from ice); minimum discharge, 129 ft^3/s Sept. 17, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 27,000 ft^3/s and maximums (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 17	1030	ice jam	* 26.56	June 01	1200	34,500	12.31
May 02	0030	* 62,800	16.06	July 17	1100	41,200	13.30
May 10	1245	37,100	12.70				

Minimum discharge 416 ft^3/s Oct. 4, 5, gage height, 3.84 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	590	955	6580	2100	1170	2000	2650	59900	33200	4390	2950	911
2	525	955	5690	2000	1160	1900	2550	57700	28600	3830	2480	2540
3	468	955	5120	1900	1160	1830	2500	44200	20700	3170	2110	2370
4	438	3000	3990	1870	1170	1750	2520	33200	14400	2540	1830	1850
5	435	5000	3130	1820	1170	1670	2600	27300	10600	2190	1590	1650
6	1030	6450	3240	1750	1180	1630	3000	25100	8330	2320	1400	1460
7	6860	6250	3540	1710	1180	1580	4200	26200	6970	4160	1310	1240
8	7900	6050	2930	1680	1180	1530	5400	27100	6170	19400	1700	1090
9	6290	5750	2320	1620	1170	1510	6300	29500	6080	20200	1900	948
10	5000	5250	2540	1600	1160	1500	6800	36400	5620	12800	2650	836
11	4010	5030	3000	1550	1140	1500	7400	33100	4660	8130	2330	756
12	3110	8920	3700	1520	1130	1490	8100	28600	3790	9150	2130	682
13	2560	14700	4400	1500	1130	1490	8850	30100	3230	15800	2810	630
14	2370	11800	5100	1480	1150	1480	10000	27200	3070	12900	4510	584
15	2510	7890	6000	1440	1200	1480	12000	23400	3250	10000	4550	547
16	2610	6040	6800	1410	1300	1480	16000	19700	3580	21800	4330	517
17	2390	5300	6700	1390	1580	1480	26000	16100	3540	39100	5790	498
18	2000	5550	6300	1360	1900	1470	27800	13500	2950	29500	4820	476
19	1670	5980	5800	1330	2400	1470	28200	11700	2820	19300	3570	466
20	1450	5230	5100	1320	3100	1480	27500	10300	4470	13200	2760	471
21	1380	4710	4500	1290	3700	1510	27000	9350	6730	9310	2210	525
22	1250	4830	4000	1280	3550	1620	26000	8640	5430	7020	1850	651
23	1100	6050	3650	1250	3250	1850	24500	8030	4080	5690	1570	1270
24	990	6590	3400	1230	3000	2100	28700	14200	3100	5260	1430	1370
25	910	6950	3150	1220	2700	2500	39000	22100	2640	7110	1410	1140
26	920	11800	2950	1210	2450	3150	43700	16500	4550	7660	1290	977
27	850	13200	2750	1190	2260	3500	44300	11900	9900	5950	1170	925
28	780	11500	2550	1180	2200	3450	45900	9100	8970	5070	1060	867
29	775	9410	2400	1180	2150	3250	49600	7260	6870	4980	937	823
30	760	7630	2300	1170	---	3000	54000	7740	5360	4510	888	831
31	920	---	2150	1170	---	2800	---	20100	---	3630	938	---
TOTAL	64851	199725	125780	45720	52990	60450	593070	715220	233660	320070	72273	29901
MEAN	2092	6658	4057	1475	1827	1950	19770	23070	7789	10320	2331	997
MAX	7900	14700	6800	2100	3700	3500	54000	59900	33200	39100	5790	2540
MIN	435	955	2150	1170	1130	1470	2500	7260	2640	2190	888	466
CFSM	.78	2.48	1.51	.55	.68	.73	7.38	8.61	2.91	3.85	.87	.37
IN.	.90	2.77	1.75	.63	.74	.84	8.23	9.93	3.24	4.44	1.00	.42

CAL YR 1983 TOTAL 2159655 MEAN 5917 MAX 78100 MIN 208 CFSM 2.21 IN. 29.98
WTR YR 1984 TOTAL 2513710 MEAN 6868 MAX 59900 MIN 435 CFSM 2.56 IN. 34.89

BEST COPY AVAILABLE

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

LOCATION.--Lat 47°04'14", long 69°04'51", Aroostook County, Hydrologic Unit 01010002, on left bank 3.0 mi upstream from mouth and village of Allagash.

DRAINAGE AREA.--1,229 mi^2, not including 249 mi^2 drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--Discharge: July 1910 to November 1910, May to November 1911, September 1931 to current year.
Water-quality records.--Water years 1975 to 1981.
Specific conductance: April 1975 to September 1980.
Water temperatures: April 1975 to September 1980.
Suspended sediment discharge: October 1975 to September 1976.

REVISED RECORDS.--WSP 1231: 1911. WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.6 ft, National Geodetic Vertical Datum of 1929. Prior to December 1911, nonrecording gage at site 3.0 mi downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft^3, 58 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years (water years 1932-84), 1,959 ft^3/s (21.65 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,900 ft^3/s Apr. 18, 1983, gage height, 13.68 ft; maximum gage height, 19.48 Apr. 18, 1983 (backwater from ice); minimum discharge, 87 ft^3/s Sept. 11, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,600 ft^3/s May 1, gage height, 10.55 ft; maximum gage height, 12.37 ft Apr. 17 (backwater from ice); minimum discharge, 463 ft^3/s Nov. 2, 3, gage height, 2.34 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	878	500	3560	1750	650	1120	1280	20300	12700	2700	1770	929
2	825	471	3240	1680	640	1070	1220	18300	12500	2440	1640	902
3	771	544	2940	1600	640	1020	1200	14800	10700	2200	1520	833
4	712	1280	2380	1530	630	980	1210	12500	8640	2000	1420	795
5	718	1460	2370	1470	630	950	1320	11200	7120	1890	1330	827
6	1710	1470	2450	1400	620	920	1500	11000	6130	1880	1270	904
7	2250	1710	2560	1350	620	870	2100	10800	5150	2000	1380	923
8	1980	1750	3000	1300	620	860	2800	9480	4600	2840	1790	903
9	1740	1650	2780	1250	610	840	3150	9530	4140	2680	1530	873
10	1520	1500	2950	1200	610	810	3450	9420	3540	2340	1420	833
11	1340	1640	2500	1150	610	790	3700	8460	3100	2050	1360	796
12	1210	2650	2220	1120	620	770	3900	8030	2740	2310	1310	750
13	1140	3050	2590	1060	630	750	4150	8210	2520	2450	1290	697
14	1140	2800	3020	1020	650	740	4550	7590	2580	2200	1260	675
15	1130	2380	3310	990	680	740	5300	7370	2550	2260	1340	648
16	1070	2130	3920	960	740	730	6400	6710	2330	6030	2250	606
17	994	2170	4160	930	820	730	7600	5980	2060	6450	2060	564
18	952	2450	3770	900	940	730	9400	5310	1840	5030	1660	551
19	889	2300	3500	870	1100	720	10300	4710	2390	4670	1460	584
20	819	2080	3300	840	1300	720	10800	4280	3420	4150	1340	641
21	765	1970	3100	810	1490	720	10700	3830	2930	3630	1240	884
22	723	2000	2900	790	1500	760	9850	3440	2480	3170	1150	931
23	687	1930	2750	770	1450	830	9100	3210	2120	2860	1080	807
24	656	1880	2600	750	1400	920	10500	5520	1850	3030	1100	743
25	631	2770	2450	730	1320	1080	14000	5520	1860	2870	1130	683
26	601	6080	2300	710	1280	1320	15000	4760	2750	2610	1110	672
27	568	5880	2180	700	1270	1550	15600	4220	3380	2650	1050	651
28	542	5040	2080	690	1180	1520	16500	3680	3340	2580	1000	595
29	549	4410	2000	670	1150	1500	17400	3320	3060	2350	952	559
30	552	3970	1900	660	---	1430	18300	3950	2860	2120	921	528
31	528	---	1800	660	---	1340	---	7510	---	1930	924	---
TOTAL	30590	71915	86580	32310	26350	29830	222280	242940	127380	90370	42057	22287
MEAN	987	2397	2793	1042	909	962	7409	7837	4246	2915	1357	743
MAX	2250	6080	4160	1750	1500	1550	18300	20300	12700	6450	2250	931
MIN	528	471	1800	660	610	720	1200	3210	1840	1880	921	528
CFSM	.80	1.95	2.27	.85	.74	.78	6.03	6.38	3.45	2.37	1.10	.60
IN.	.93	2.18	2.62	.98	.80	.90	6.73	7.35	3.86	2.74	1.27	.67

CAL YR 1983 TOTAL 952017 MEAN 2608 MAX 32100 MIN 320 CFSM 2.12 IN. 28.82
WTR YR 1984 TOTAL 1024889 MEAN 2800 MAX 20300 MIN 471 CFSM 2.28 IN. 31.02

BEST COPY AVAILABLE

01011500 ST. FRANCIS RIVER AT OUTLET OF GLASIER LAKE, NEAR CONNORS, NEW BRUNSWICK
(International gaging station)

LOCATION.--Lat 47°12'25", long 68°57'25", Madawaska County, on left bank at outlet of Glasier Lake, 4.0 mi upstream from mouth, and 6.5 mi west of Connors.

DRAINAGE AREA.--524 mi^2.

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 550 ft, from International Boundary Map.

REMARKS.--Records excellent.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

AVERAGE DISCHARGE.--33 years, 905 ft^3/s, (23.45 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft^3/s Apr. 30, 1979, gage height 15.39 ft; minimum, 58 $ft^3/2$ Oct. 12, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,200 ft^3/s May 2, gage height, 13.15 ft; minimum, 125 ft^3/s Sept. 26, gage height, 2.32 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	269	1130	516	265	444	563	9900	2890	715	825	244
2	172	294	1070	497	271	432	557	11000	3340	687	763	235
3	166	333	1020	488	250	416	548	10600	3340	630	711	219
4	160	384	941	470	250	414	552	9140	2980	587	649	215
5	165	437	885	463	248	403	554	7820	2600	548	593	203
6	193	508	845	446	264	396	575	6870	2270	511	561	200
7	210	579	893	443	261	399	611	6170	2020	532	540	197
8	234	656	892	434	256	395	708	5870	1830	713	518	191
9	292	739	874	426	249	377	831	5940	1650	1240	504	184
10	327	784	865	413	244	366	952	6370	1490	1560	480	177
11	360	824	842	402	245	355	1050	6940	1370	1510	469	173
12	368	902	800	400	242	340	1090	6860	1220	1550	453	163
13	392	1000	792	396	239	333	1120	6600	1130	1700	434	164
14	393	1100	790	386	234	341	1200	6370	1050	1920	425	159
15	386	1180	779	370	244	353	1360	5910	988	1930	420	150
16	382	1160	748	356	268	345	1660	5330	933	2120	448	149
17	367	1110	752	350	277	344	2110	4700	891	2900	443	144
18	372	1060	736	339	301	328	2680	4090	836	3840	426	140
19	369	1050	720	337	324	326	3270	3580	820	3860	419	137
20	355	1040	686	330	360	318	3760	3190	794	3370	399	141
21	339	1020	651	315	397	313	4170	2840	778	2850	382	144
22	323	1010	637	318	420	328	4360	2550	768	2390	360	138
23	303	956	649	302	426	359	4330	2360	723	2050	352	132
24	298	979	632	292	436	387	4420	2440	675	1820	344	131
25	276	971	613	300	436	414	5030	2920	660	1600	329	127
26	263	1110	583	302	432	465	5830	3430	659	1420	306	134
27	246	1190	561	297	435	514	6560	3350	675	1280	287	137
28	234	1230	547	283	421	546	7070	3010	689	1170	273	127
29	237	1230	568	275	439	564	7640	2640	698	1070	254	129
30	233	1210	549	266	---	577	8560	2390	706	979	251	129
31	238	---	525	278	---	576	---	2440	---	901	246	---
TOTAL	8830	26265	23575	11490	9134	12468	83721	163620	41473	49953	13864	4913
MEAN	285	876	760	371	315	402	2791	5278	1382	1611	447	164
MAX	393	1230	1130	516	439	577	8560	11000	3340	3860	825	244
MIN	160	269	525	266	234	313	548	2360	659	511	246	127
CFSM	.54	1.67	1.45	.71	.60	.77	5.33	10.1	2.64	3.07	.85	.31
IN.	.63	1.86	1.67	.82	.65	.89	5.94	11.62	2.94	3.55	.98	.35

CAL YR 1983 TOTAL 397767 MEAN 1090 MAX 11900 MIN 134 CFSM 2.08 IN. 28.24
WTR YR 1984 TOTAL 449306 MEAN 1228 MAX 11000 MIN 127 CFSM 2.34 IN. 31.90

BEST COPY AVAILABLE

01012515 CLAYTON STREAM AT OUTLET CLAYTON LAKE, ME

LOCATION.--Lat 46°43'50", long 68°46'18", Aroostook County, Hydrologic Unic 01010003, on right bank 0.3 mi west from logging route 42, 1.0 mi west of its intersection with the Carr Pond Road, and 18 mi west of Portage.

DRAINAGE AREA.--13.9 mi².

PERIOD OF RECORD.--July 1982 to June 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 840 ft, from topographic map.

REMARKS.--Records good except those for winter period, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 409 ft³/s Apr. 18, 1983, gage height, 14.47 ft; minimum discharge, 0.10 ft³/s Aug. 9, 1982, gage height, 9.87 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s and maximum (*) during period October 1983 to June 1984:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 27	0330	136	12.27	Apr. 25	1015	* 228	12.43
Apr. 17	1700	219	12.39	Jun. 01	unknown	129	11.97

Minimum discharge not determined, occurred during period of backwater from ice: minimum daily, 3.7 ft³/s Mar. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	4.4	65	9.2	6.6	5.8	10	215	126			
2	13	4.2	53	8.9	6.5	5.7	11	190	114			
3	12	5.1	44	8.6	6.5	5.6	12	160	91			
4	11	14	37	8.4	6.5	5.4	13	150	72			
5	25	16	32	8.2	6.4	5.[illegible]	15	145	61			
6	57	23	28	7.9	8.9	5.2	18	140	52			
7	52	26	45	7.7	7.8	5.1	25	140	45			
8	48	27	50	7.6	7.0	5.0	30	135	34			
9	45	26	44	7.5	6.7	4.8	32	145	29			
10	43	23	38	7.4	6.3	4.7	34	145	24			
11	38	28	34	7.3	6.0	4.6	36	125	21			
12	34	42	29	7.2	5.8	4.5	45	120	18			
13	36	48	26	7.2	5.6	4.4	61	120	15			
14	40	45	40	7.1	5.8	4.3	88	110	---			
15	29	38	62	7.0	14	4.2	106	120	---			
16	21	34	53	7.0	16	4.1	120	95	---			
17	15	39	43	6.9	14	5.0	155	76	---			
18	11	41	35	6.9	11	4.3	204	60	---			
19	9.0	39	31	6.9	9.3	3.9	191	48	---			
20	8.0	34	28	6.8	8.2	3.7	183	40	---			
21	7.1	33	24	6.8	7.5	6.4	164	32	---			
22	6.4	35	21	6.8	6.8	5.4	136	28	---			
23	6.0	35	19	6.8	6.2	4.8	132	26	---			
24	5.6	32	17	6.7	5.8	4.5	172	28	---			
25	5.3	67	16	6.7	6.0	4.3	219	26	---			
26	5.0	119	14	6.7	8.0	4.2	193	23	---			
27	4.8	133	13	6.7	6.6	19	189	21	---			
28	4.6	116	12	6.6	6.0	15	201	19	---			
29	4.7	95	15	6.6	5.9	14	205	21	---			
30	4.6	79	11	6.6	---	12	210	47	---			
31	4.4	---	9.7	6.6	---	11	---	92	---			
TOTAL	620.5	1300.7	988.7	225.3	223.7	196.1	3210	2842	---			
MEAN	20.0	43.4	31.9	7.27	7.71	6.33	107	91.7	---			
MAX	57	133	65	9.2	16	19	219	215	---			
MIN	4.4	4.2	9.7	6.6	5.6	3.7	10	19	---			
CFSM	1.44	3.12	2.29	.52	.55	.46	7.70	6.60	---			
IN.	1.66	3.48	2.65	.60	.60	.52	8.59	7.61	---			

CAL YR 1983 TOTAL 11707.19 MEAN 32.1 MAX 369 MIN .59 CFSM 2.31 IN. 31.33

BEST COPY AVAILABLE

01012520 BALD MOUNTAIN BROOK NEAR BALD MOUNTAIN, ME

LOCATION.--Lat 46°44'23", long 68°45'21", Aroostook County, Hydrologic Unit 01010003, on left bank 30 ft downstream from logging route 42, 0.3 mi west of its intersection with the Carr Pond Road and 18 mi west of Portage.

DRAINAGE AREA.--1.73 mi^2, revised.

PERIOD OF RECORD.--October 1980 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 820 ft, from topographic map.

REMARKS.--Records good except those for winter period, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 198 ft^3/s Apr. 17, 1983, gage height, 7.57 ft; minimum, 0.05 ft^3/s July 17, 1982, gage height, 4.35 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 26	0220	53	5.87	Jul. 16	0900	30	5.45
Apr. 18	0355	47	5.77	Aug. 15	1850	* 195	7.55
Apr. 25	0210	47	5.77				

Minimum discharge, 0.27 ft^3/s Aug 9-14, gage height, 4.49 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	.42	3.9	1.5	.52	.74	1.3	15	15	2.2	.75	3.1
2	.34	.40	3.4	1.4	.52	.68	1.4	9.1	8.0	1.9	.65	2.3
3	.31	.69	3.0	1.3	.52	.66	1.5	5.8	5.8	1.5	.55	1.9
4	.30	3.6	2.6	1.3	.52	.64	1.6	5.3	4.7	1.3	.48	1.8
5	1.0	2.9	2.4	1.2	1.2	.62	2.0	7.5	3.9	2.3	.43	2.4
6	6.9	2.8	2.2	1.2	1.1	.60	2.6	9.5	3.3	2.8	.38	2.0
7	4.3	4.6	5.0	1.1	.98	.58	6.5	6.4	2.9	2.0	.41	1.7
8	2.0	3.3	12	1.0	.87	.56	5.9	5.2	2.7	2.8	.42	1.5
9	1.6	2.4	7.0	1.0	.74	.54	5.5	5.5	2.5	2.0	.32	1.3
10	1.3	1.9	4.3	.95	.64	.53	5.2	5.3	2.3	1.4	.29	1.1
11	1.0	3.3	3.1	.91	.56	.52	4.8	4.2	1.9	1.2	.28	1.0
12	.92	6.5	2.5	.87	.50	.51	6.1	3.9	1.7	2.3	.29	.88
13	1.6	5.7	2.1	.84	.52	.50	7.8	4.5	1.9	2.1	.29	.76
14	2.1	3.6	11	.80	.60	.48	13	4.1	2.5	1.5	.51	.66
15	1.6	2.9	17	.77	1.5	.47	19	5.9	2.2	2.3	43	.58
16	1.1	2.5	9.0	.75	4.6	.46	25	4.8	1.6	19	35	.51
17	.93	4.0	5.9	.72	3.5	.65	35	3.5	1.2	8.5	16	.44
18	.86	4.4	4.7	.69	2.6	.60	30	2.8	1.1	4.9	9.7	.39
19	.78	3.3	4.0	.66	1.9	.53	25	2.5	7.3	3.6	6.7	.35
20	.71	2.8	3.6	.64	1.4	.43	23	2.5	5.1	3.0	5.6	.80
21	.62	2.7	3.2	.62	1.1	.92	19	2.4	2.6	2.6	4.7	.70
22	.54	3.4	2.9	.60	.86	.82	16	2.1	2.1	2.2	3.9	.62
23	.51	3.1	2.6	.59	.70	.71	13	1.9	1.6	2.2	3.5	.56
24	.57	2.9	2.4	.58	.58	.62	31	2.6	1.3	2.5	3.9	.51
25	.56	13	2.2	.57	.50	.55	41	2.2	1.9	2.0	3.9	.47
26	.48	35	2.1	.56	1.1	.50	26	1.8	5.2	1.6	3.0	.44
27	.46	13	1.9	.55	.97	1.9	26	1.7	5.8	1.8	2.6	.41
28	.46	7.8	1.8	.54	.87	1.7	26	1.4	4.0	1.6	2.3	.38
29	.60	5.5	1.7	.54	.78	1.5	20	1.8	3.0	1.3	2.1	.36
30	.54	4.5	1.6	.53	---	1.4	17	7.4	2.5	1.0	2.0	.35
31	.46	---	1.5	.53	---	1.2	---	14	---	.84	3.1	---
TOTAL	45.83	153.91	132.6	25.81	32.75	23.12	457.2	152.6	107.6	88.24	157.05	30.27
MEAN	1.16	5.13	4.28	.83	1.13	.75	15.2	4.92	3.59	2.85	5.07	1.01
MAX	6.9	35	17	1.5	4.6	1.9	41	15	15	19	43	3.1
MIN	.30	.40	1.5	.53	.50	.43	1.3	1.4	1.1	.84	.28	.35
CFSM	.67	2.97	2.47	.48	.65	.43	8.79	2.84	2.08	1.65	2.93	.58
IN.	.77	3.31	2.85	.55	.70	.50	9.83	3.28	2.31	1.90	3.38	.65

CAL YR 1983 TOTAL 1420.03 MEAN 3.89 MAX 88 MIN .12 CFSM 2.25 IN. 30.53
WTR YR 1984 TOTAL 1396.98 MEAN 3.82 MAX 43 MIN .28 CFSM 2.21 IN. 30.04

BEST COPY AVAILABLE

01012525 BISHOP MOUNTAIN BROOK NEAR BISHOP MOUNTAIN, ME

LOCATION.--Lat 46°44'43", long 68°45'11", Aroostook County, Hydrologic Unit 01010003, on left bank 0.3 mi north from logging route 42, 0.3 mi west from its intersection with the Carr Pond Road and 18 mi west of Portage.

DRAINAGE AREA.--1.15 mi^2, revised.

PERIOD OF RECORD.--November 1981 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 820 ft, from topographic map.

REMARKS.--Records good except those for winter period, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136 ft^3/s Aug. 15, 1984. Maximum gage height, 7.60 ft Mar. 27, 1982 (backwater from ice); minimum daily discharge, 0.04 ft^3/s June 27, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25 ft^3/s and maximum (*)

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 25	1925	26	6.21	Aug. 15	1840	* 136	7.09
Apr. 24	1930	26	6.22				

Minimum discharge, 0.13 ft^3/s Aug. 6,7, 9-14, gage height, 5.35 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.19	2.3	.90	.38	.44	.77	16	9.2	1.2	.31	.89
2	.22	.18	1.9	.86	.38	.42	.84	12	5.7	.88	.27	.63
3	.20	.38	1.7	.82	.38	.40	.90	8.6	3.9	.67	.23	.48
4	.19	2.4	1.6	.78	.38	.38	1.0	8.0	3.0	.55	.20	.46
5	.90	1.9	1.4	.75	.75	.37	1.2	10	2.5	.89	.17	.71
6	4.2	2.7	1.3	.72	.70	.36	1.6	11	2.1	1.0	.15	.61
7	2.4	3.0	3.0	.69	.62	.35	3.5	8.5	2.0	.86	.16	.46
8	1.4	2.0	7.0	.66	.52	.34	3.2	7.0	1.9	1.4	.17	.39
9	1.0	1.5	3.5	.63	.45	.33	3.0	8.3	1.7	.95	.15	.34
10	.78	1.1	1.7	.61	.39	.32	2.8	7.0	1.3	.67	.14	.30
11	.61	2.0	1.4	.59	.34	.32	2.7	5.8	1.0	.51	.14	.27
12	.58	4.9	1.3	.57	.30	.31	3.3	5.6	.86	1.2	.14	.25
13	.90	3.4	1.2	.55	.32	.30	4.2	5.7	.95	1.1	.15	.23
14	1.3	1.9	5.0	.53	.34	.29	6.0	5.5	1.2	.77	.22	.22
15	1.0	1.4	7.2	.51	.60	.28	8.4	7.4	1.3	1.1	24	.21
16	.70	1.2	5.9	.50	3.0	.28	12	5.2	.94	8.9	13	.20
17	.48	2.5	3.2	.49	2.2	.41	17	3.9	.69	4.1	4.7	.19
18	.35	2.7	2.5	.48	1.6	.35	15	3.3	.62	2.0	2.5	.18
19	.27	2.0	2.2	.47	1.2	.30	13	2.9	5.3	1.6	1.9	.17
20	.24	1.6	2.0	.46	.90	.26	13	2.8	2.8	1.2	1.6	.50
21	.20	1.7	1.9	.45	.71	.56	12	2.6	1.6	.89	1.3	.43
22	.18	2.2	1.7	.44	.58	.49	11	2.1	1.3	.76	1.0	.38
23	.17	1.9	1.6	.43	.45	.43	13	2.0	.95	.75	.91	.34
24	.19	1.8	1.4	.42	.35	.38	18	2.8	.73	.97	1.1	.31
25	.18	9.8	1.4	.42	.39	.33	18	2.3	1.1	.74	1.2	.29
26	.16	11	1.3	.41	.70	.30	15	1.9	3.5	.62	.85	.27
27	.16	6.2	1.2	.41	.56	1.1	16	1.7	3.5	.76	.68	.25
28	.16	4.0	1.1	.40	.50	.98	15	1.4	2.2	.75	.56	.23
29	.22	3.0	1.1	.39	.46	.90	15	1.8	1.8	.59	.47	.22
30	.22	2.6	1.0	.39	---	.82	15	2.2	1.5	.45	.45	.20
31	.20	---	.95	.38	---	.75	---	11	---	.36	.90	---
TOTAL	20.01	83.15	71.95	17.11	20.45	13.85	261.41	181.3	67.14	39.19	59.72	10.61
MEAN	.65	2.77	2.32	.55	.71	.45	8.71	5.85	2.24	1.26	1.93	.35
MAX	4.2	11	7.2	.90	3.0	1.1	18	16	9.2	8.9	24	.89
MIN	.16	18	.95	.38	.30	.26	.77	1.4	.62	.36	.14	.17
CFSM	.57	2.41	2.02	.48	.62	.39	7.57	5.09	1.95	1.10	1.68	.30
IN.	.65	2.69	2.33	.55	.66	.45	8.46	5.86	2.17	1.27	1.93	.34

CAL YR 1983 TOTAL	975.77	MEAN	2.67	MAX	70	MIN	.04	CFSM	2.32	IN. 31.56
WTR YR 1984 TOTAL	845.84	MEAN	2.31	MAX	24	MIN	.14	CFSM	2.01	IN. 27.36

BEST COPY AVAILABLE

01012570 FISH RIVER AT INLET FISH RIVER LAKE, ME

LOCATION.--Lat 46°47'22", long 68°46'25", Aroostook County, Hydrologic Unit 01010003, on right bank 30 ft upstream from Fox Brook Tote Road and 20 mi west of Portage.

DRAINAGE AREA.--70.3 mi².

PERIOD OF RECORD.--July 1982 to June 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 720 ft, from topographic map.

REMARKS.-- Records good except those for winter period, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1650 ft³/s Apr. 18, 1983, gage height, 9.93 ft; minimum discharge 2.5 ft³/s July 25, 1982, gage height, 1.26 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft³/s and maximum (*) during period October 1983 to June 1984:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 26	1315	954	7.34	May 01	0600	1480	7.93
Apr. 18	0430	* 1610	8.18	Jun. 01	0730	755	a 6.70

a Backwater from highway bridge construction.

Minimum discharge, 17 ft³/s October 3,4, gage height, 1.66 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	25	370	50	28	32	54	1440	680			
2	19	24	300	46	28	30	60	1790	550			
3	18	27	250	43	28	29	65	1050	460			
4	18	99	210	41	27	28	75	911	390			
5	27	98	190	40	27	28	92	851	320			
6	148	113	170	39	47	27	120	844	270			
7	125	152	280	38	42	26	150	838	225			
8	91	142	330	37	39	26	240	797	190			
9	79	125	285	36	35	25	310	841	150			
10	68	113	250	35	33	24	300	827	120			
11	59	135	215	34	31	24	290	720	100			
12	53	250	185	34	30	23	280	674	84			
13	57	275	160	33	29	23	330	674	---			
14	71	227	240	33	50	23	440	619	---			
15	67	192	350	32	77	22	600	654	---			
16	59	179	300	31	83	22	810	572	---			
17	52	242	255	31	73	26	1070	490	---			
18	48	264	210	30	64	24	1500	415	---			
19	45	228	185	30	55	21	1130	354	---			
20	41	202	160	30	48	20	985	309	---			
21	38	198	140	29	43	34	970	270	---			
22	36	226	125	29	39	30	858	234	---			
23	34	208	110	29	36	26	831	209	---			
24	33	195	100	29	33	24	1070	284	---			
25	31	342	94	29	37	23	1790	241	---			
26	29	859	85	28	43	22	1200	210	---			
27	27	739	76	28	37	100	1200	192	---			
28	26	608	70	28	34	88	1280	170	---			
29	28	515	76	28	33	78	1270	164	---			
30	29	435	68	28	---	70	1310	330	---			
31	27	---	56	28	---	60	---	503	---			
TOTAL	1504	7437	5895	1036	1209	1058	20180	17974	---			
MEAN	48.5	248	190	33.4	41.7	34.1	673	580	---			
MAX	148	859	370	50	83	100	1500	1440	---			
MIN	18	24	56	28	27	20	54	164	---			
CFSM	.69	3.53	.88	.48	.59	.49	9.57	8.25	---			
IN.	.80	3.94	1.01	.55	.64	.56	10.68	9.51	---			

CAL YR 1983 TOTAL 64586.6 MEAN 177 MAX 1550 MIN 3.1 CFSM 2.52 IN. 34.18

BEST COPY AVAILABLE

01013500 FISH RIVER NEAR FORT KENT, ME

LOCATION.--Lat 47°14'14", long 68°34'56", Aroostook County, Hydrologic Unit 01010003, on right bank 300 ft upstream from highway bridge at Fort Kent Mills, 2 mi upstream from mouth, and 2 mi south of Fort Kent.

DRAINAGE AREA.--873 mi².

PERIOD OF RECORD.--July 1903 to December 1908 and May to November 1911 (published as "at Wallagrass"), September 1929 to current year.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 511.38 ft National Geodetic Vertical Datum of 1929. July 1903 to December 1908 and May to November 1911, nonrecording gage at site 10 mi upstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Large lake area above station has not yet been developed for storage. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--60 years (water years 1904-08, 1930-84), 1,423 ft³/s, (22.14 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s Apr. 30, 1973, gage height, 12.43 ft; minimum, 34 ft³/s Aug. 29, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,600 ft³/s May 2, gage height, 10.43 ft; minimum discharge, 305 ft³/s Sept. 30, gage height, 2.67 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	353	4000	1600	530	680	853	11300	4520	2260	1320	981
2	329	350	3850	1500	530	670	850	11400	4730	2230	1230	937
3	322	369	3650	1420	520	670	861	10800	4700	2190	1140	874
4	313	499	3430	1370	520	660	878	10100	4600	2100	1060	841
5	331	506	3250	1300	510	670	907	9720	4450	2020	1040	811
6	457	594	3100	1230	510	670	1080	9410	4240	1930	1080	762
7	452	672	3320	1180	515	680	1340	9030	4030	1880	1040	718
8	458	721	3390	1120	520	680	1610	8700	3860	1930	1010	684
9	466	754	3310	1050	510	690	1770	8680	3640	1840	961	652
10	470	782	3210	1010	510	700	1930	8440	3390	1770	924	611
11	475	865	3080	960	510	730	2070	8040	3170	1680	858	573
12	472	1110	2980	920	500	740	2250	7740	2930	1850	821	536
13	501	1250	2960	870	500	750	2450	7510	2750	1750	793	515
14	529	1350	3070	830	510	750	2770	7170	2600	1700	756	491
15	521	1390	3140	790	510	740	3180	7070	2430	1670	962	460
16	504	1440	3180	750	520	735	3740	6790	2260	2130	1790	434
17	510	1650	3180	720	530	720	4790	6500	2100	2390	1850	414
18	499	1690	3110	680	550	700	5590	6170	1970	2540	1950	398
19	475	1690	3050	650	600	680	6300	5620	2070	2610	1950	385
20	457	1700	2920	630	640	670	6600	5130	2000	2590	1890	382
21	442	1740	2750	620	700	650	6800	4770	1970	2520	1790	378
22	433	1820	2600	600	730	645	6790	4470	1920	2400	1700	366
23	423	1800	2470	590	750	640	6920	4260	1820	2310	1600	356
24	413	1810	2350	580	760	645	7430	4440	1750	2200	1530	347
25	403	2270	2250	570	750	670	8210	4200	1690	2040	1450	341
26	392	3500	2130	560	730	700	8670	3980	1770	1930	1370	346
27	384	3810	2020	550	710	740	9210	3740	1870	1810	1290	338
28	378	3990	1930	545	690	800	9630	3490	1960	1720	1200	329
29	374	4080	1840	540	690	830	10100	3280	2100	1620	1120	320
30	367	4110	1770	540	---	850	10600	3470	2160	1520	1050	310
31	361	---	1680	535	---	850	---	3960	---	1420	1020	---
TOTAL	13246	48665	88970	26810	17055	22005	136179	209380	85450	62550	39545	15890
MEAN	427	1622	2870	865	588	710	4539	6754	2848	2018	1276	530
MAX	529	4110	4000	1600	760	850	10600	11400	4730	2610	1950	981
MIN	313	350	1680	535	500	640	850	3280	1690	1420	756	310
CFSM	.49	1.86	3.29	.99	.67	.81	5.20	7.74	3.26	2.31	1.46	.61
IN.	.55	2.07	3.79	1.14	.73	.94	5.80	8.92	3.64	2.67	1.69	.68

CAL YR 1983 TOTAL 711146 MEAN 1948 MAX 13600 MIN 241 CFSM 2.23 IN. 30.30
WTR YR 1984 TOTAL 765745 MEAN 2092 MAX 11400 MIN 310 CFSM 2.40 IN. 32.63

BEST COPY AVAILABLE

01014000 ST. JOHN RIVER BELOW FISH RIVER, AT FORT KENT, ME
(International gaging station)

LOCATION.--Lat 47°15'27", long 68°35'35", Aroostook County, Hydrologic Unit 01010001, on right bank at Fort Kent and 0.2 mi downstream from Fish River.

DRAINAGE AREA.--5,665 mi^2, not including 249 mi^2 drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--October 1926 to current year. Prior to October 1931, published as "at Fort Kent."

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 488.9 ft, National Geodetic Vertical Datum of 1929. Prior to Oct. 10, 1933, nonrecording gage on opposite bank at same datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--58 years, 9,803 ft^3/s (23.50 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 151,000 ft^3/s Apr. 30, 1979, gage height, 27.31 ft; minimum daily, 510 $ft^3/2$ Mar. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 45,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 02	0345	*110,000	23.23	July 17	1815	53,200	15.97
June 01	2200	56,200	16.42				

Minimum discharge, 1770 ft^3/s Sept. 19, gage height 1.99 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2430	2430	16200	6000	3200	5400	6150	105000	52000	10700	7930	3510
2	2270	2430	14800	5650	3150	5000	5950	107000	52400	9710	7070	3940
3	2130	2510	13500	5450	3100	4750	5800	90300	42700	8840	6370	5010
4	2010	3350	11800	5200	3050	4500	5800	72700	33400	7890	5800	4410
5	1980	5790	9700	5000	3020	4350	6400	61700	26700	7190	5390	4260
6	2710	9150	10300	4750	3000	4150	8000	56400	22600	6900	5180	4050
7	6880	9590	10400	4550	2950	4000	11500	55100	19500	7370	4750	3800
8	11300	9880	10200	4350	2920	3800	13300	54500	17300	17500	5190	3550
9	9820	9820	10000	4200	2910	3700	14500	55900	16100	25800	5530	3250
10	8160	9150	10100	4050	2900	3600	16000	62900	14900	19900	5590	3050
11	6980	8930	9760	3900	2900	3500	17200	61500	13100	14900	5740	2900
12	5940	11400	9470	3800	2890	3450	18000	55000	11500	14300	5290	2700
13	5260	18500	9390	3650	2880	3400	19000	54900	10400	20000	5260	2550
14	4930	18100	10500	3600	2950	3350	19800	52300	9880	20100	5540	2400
15	4910	14400	11300	3500	3200	3300	22000	46900	9740	16800	7600	2250
16	5070	12000	13100	3400	3450	3250	26000	41300	9560	24700	9160	2100
17	4880	11100	15300	3350	3850	3220	39000	35200	9210	50000	10300	2000
18	4480	11100	15400	3300	4300	3200	48500	30300	8350	45100	9830	1900
19	4070	11600	14800	3200	5100	3180	53000	26500	8340	33800	8300	1800
20	3700	11100	14000	3150	6700	3160	54400	23800	9640	25700	7140	1860
21	3380	10300	12300	3120	7900	3150	54700	21600	12700	20400	6250	2000
22	3130	10200	11200	3110	7700	3300	51400	19800	11600	16800	5610	2310
23	2910	10900	10500	3100	7400	3750	47900	18400	9760	14400	5120	2420
24	2740	11800	9700	3100	7000	4250	52100	23100	8250	13300	4850	2930
25	2610	13000	9100	3150	6700	4750	67500	33600	7380	13300	4740	2730
26	2500	21000	8600	3250	6300	5900	78300	29900	8370	14700	4530	2550
27	2400	24600	8100	3300	6000	7000	80400	24300	14300	13000	4240	2390
28	2300	22700	7650	3350	5900	7200	83800	20400	15600	11600	3990	2290
29	2290	20200	7200	3310	5700	7100	89000	17500	13900	10800	3750	2150
30	2240	18200	6900	3300	---	6800	95400	17500	11900	10200	3530	2110
31	2360	---	6500	3250	---	6500	---	28400	---	9020	3540	---
TOTAL	128770	355230	337770	119390	129020	135960	1110800	1403700	511080	534720	183110	85170
MEAN	4154	11840	10900	3851	4449	4386	37030	45280	17040	17250	5907	2839
MAX	11300	24600	16200	6000	7900	7200	95400	107000	52400	50000	10300	5010
MIN	1980	2430	6500	3100	2880	3150	5800	17500	7380	6900	3530	1800
CFSM	.73	2.09	1.92	.68	.79	.77	6.54	7.99	3.01	3.05	1.04	.50
IN.	.85	2.33	2.22	.78	.85	.89	7.29	9.22	3.36	3.51	1.20	.56

CAL YR 1983 TOTAL 4489040 MEAN 12300 MAX 134000 MIN 1210 CFSM 2.17 IN. 29.48
WTR YR 1984 TOTAL 5034720 MEAN 13760 MAX 107000 MIN 1800 CFSM 2.43 IN. 33.06

BEST COPY AVAILABLE

01015000 ST. JOHN RIVER AT VAN BUREN, ME
(National stream-quality accounting network station)

LOCATION.--Lat 47°09'35", long 67°55'55", Aroostook County, Hydrologic Unit 01010001, on left bank 1,000 ft downstream from International Bridge at Van Buren.

DRAINAGE AREA.--8,174 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

REMARKS.--Water-discharge records for St. John River below Fish River at Ft. Kent (station 01014000) are used for computation of mean daily discharge.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1978 to September 1981.
WATER TEMPERATURES: November 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 141 micromhos May 29, 1981; minimum, 39 micromhos Mar. 10, 1979.
WATER TEMPERATURES: Maximum, 27.0°C July 28, Aug. 5, 1979; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	DISCHARGE, IN CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 08...	0830	14200	78	7.0	3.5	3.0	3.0	760	12.2	91	K1000	630
DEC 14...	1500	15200	83	7.3	0.0	0.0	1.3	750	13.9	97	K580	--
FEB 07...	1100	4260	112	7.1	-10.0	0.0	1.6	757	12.6	87	2000	1400
MAY 08...	1030	78600	59	7.3	9.0	6.0	2.5	762	12.4	100	K19	K15
JUL 17...	1700	72100	59	7.1	21.0	20.0	16	751	8.4	94	340	530
AUG 30...	0730	5100	100	7.6	23.0	21.5	1.0	758	8.1	92	1800	60

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
NOV 08...	36	12	1.5	2.4	0.5	27	9.9	2.5	0.1	3.7	58	49
DEC 14...	37	12	1.7	2.5	0.4	31	10	2.8	<0.1	3.7	64	52
FEB 07...	47	15	2.4	3.8	0.6	40	9.2	4.8	<0.1	4.0	87	64
MAY 08...	27	8.9	1.2	1.3	0.4	22	6.5	1.5	<0.1	3.3	48	37
JUL 17...	26	8.7	1.1	1.1	0.3	20	3.3	1.7	<0.1	3.4	50	32
AUG 30...	46	15	2.1	2.5	0.4	37	9.1	2.9	<0.1	3.1	71	57

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BEST COPY AVAILABLE

01015000 ST. JOHN RIVER AT VAN BUREN, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
NOV 08...	0.4	0.23	0.3	1.40	0.02	<0.01	0.03	70	1	16.00
DEC 14...	0.21	<0.01	0.01	0.2	0.02	0.01	<0.01	--	1	21.00
FEB 07...	0.22	0.12	0.15	0.5	0.03	0.01	<0.01	40	1	20.00
MAY 08...	0.15	0.48	0.62	3.70	<0.01	<0.01	<0.01	50	<1	10.00
JUL 17...	<0.1	<0.01	0.01	0.3	0.02	<0.01	<0.01	--	--	--
AUG 30...	<0.1	<0.01	0.01	0.8	<0.01	<0.01	<0.01	--	--	--

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 08...	<0.50	<1	<1	<3.00	2	90	2	20	12	0.1
DEC 14...	<0.50	<1	--	<3.00	1	60	2	<4.00	12	0.4
FEB 07...	<0.50	<1	<1	<3.00	2	80	4	<4.00	34	<0.1
MAY 08...	<1.00	<1	<1	<3.00	1	60	1	<4.00	8	<0.1
JUL 17...	--	--	--	--	--	--	--	--	--	--
AUG 30...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 08...	<10	2	<1	<1	80	<6.0	<3.00	8	307	82
DEC 14...	<10	2	<1	--	80	<6.0	7.00	4	164	54
FEB 07...	<10	5	<1	<1	100	<6.0	8.00	1	12	100
MAY 08...	<10	2	<1	1	60	<6.0	7.00	21	4460	36
JUL 17...	--	--	--	--	--	--	--	45	8760	70
AUG 30...	--	--	--	--	--	--	--	20	275	--

BEST COPY AVAILABLE

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME

LOCATION.--Lat 46°31'21", long 68°22'23", Aroostook County, Hydrologic Unit 01010004, on left bank 180 ft upstream from new highway bridge, and 1.8 mi downstream from St. Croix Stream and Masardis.

DRAINAGE AREA.--892 mi^2.

PERIOD OF RECORD.--September 1957 to current year.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 530.0 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Considerable regulation by Millinocket Lake, capacity 1,110,000,000 ft^3 used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--27 years, 1,536 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,100 ft^3/s Apr. 19, 1983, gage height, 17.70 ft; minimum discharge, 41 ft^3/s Sept. 26, 27, 1968, gage height, 1.89 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,700 ft^3/s Jun. 2, gage height, 14.20 ft; maximum gage height, 15.15 ft Dec. 16 (backwater from ice); minimum discharge 171 ft^3/s Sept. 17, 18, gage height, 2.83 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	324	4130	1160	415	790	1120	10900	11800	3070	875	336
2	262	313	3430	1150	420	820	1090	10500	13600	2510	765	322
3	245	313	2860	1120	425	810	1110	8690	12500	2020	670	304
4	231	443	2030	1070	445	790	1160	7100	9330	1650	590	284
5	279	870	1750	1020	465	750	1270	7180	6440	1450	525	287
6	978	1220	1750	980	485	710	1500	7850	4380	1440	465	284
7	1700	1570	1850	930	500	680	1820	7400	3470	1390	420	275
8	1580	1700	2100	890	510	650	2100	6360	2870	1580	375	256
9	1310	1560	2450	850	520	620	2280	5540	2420	1770	355	237
10	1070	1360	2700	810	510	600	2470	5090	2050	1590	333	222
11	877	1360	2500	770	500	580	2650	4580	1730	1380	309	209
12	757	2140	2220	730	490	570	2890	4020	1510	1320	293	207
13	723	2760	2050	700	480	570	3220	4850	1350	1470	284	206
14	952	2590	2100	670	480	570	3620	5230	1310	1380	281	197
15	1090	2060	2220	640	500	570	4400	5760	1390	1370	327	190
16	1020	1680	2550	620	530	570	6400	5580	1400	1490	890	182
17	889	1800	2600	590	570	570	8100	4690	1250	1770	1480	175
18	780	2180	2550	570	610	580	9100	3850	1070	1910	1270	179
19	690	2090	2350	550	660	590	9200	3250	1470	1690	997	191
20	615	1950	2100	530	710	610	9100	2830	2740	1460	784	203
21	565	1720	1950	510	710	640	8900	2570	2620	1190	637	274
22	510	1800	1780	495	700	680	8500	2380	2080	1010	536	364
23	473	1950	1640	480	680	750	7750	2130	1650	876	458	342
24	443	1860	1500	465	670	850	8270	2080	1360	948	476	311
25	418	2520	1400	450	660	1010	10300	2170	1180	1210	711	287
26	394	8060	1320	440	670	1170	11900	1960	1540	1200	772	273
27	376	9800	1250	430	700	1280	11400	1770	3140	1120	645	268
28	362	8610	1210	420	740	1280	11100	1600	3700	1260	539	258
29	354	6570	1180	415	760	1240	11200	1480	3240	1340	451	240
30	345	5050	1190	410	---	1190	10900	2940	3150	1200	390	228
31	336	---	1180	410	---	1150	---	6670	---	1030	354	---
TOTAL	20914	78223	63890	21275	16515	24240	174820	148950	107740	46094	18257	7586
MEAN	675	2607	2061	686	569	782	5827	4805	3591	1487	589	253
MAX	1700	9800	4130	1160	760	1280	11900	10900	13600	3070	1480	364
MIN	231	313	1180	410	415	570	1090	1480	1070	876	281	175

CAL YR 1983 TOTAL 645542 MEAN 1769 MAX 22100 MIN 145
WTR YR 1984 TOTAL 728504 MEAN 1990 MAX 13600 MIN 175

BEST COPY AVAILABLE

01017000 AROOSTOOK RIVER AT WASHBURN, ME

LOCATION.--Lat 46°46'36", long 68°09'29", Aroostook County, Hydrologic Unit 01010004, on right bank 50 ft upstream from Bangor and Aroostook Railroad bridge, 0.1 mi downstream from Salmon Brook, and 1.0 mi south of railroad station at Washburn.

DRAINAGE AREA.--1,654 mi^2.

PERIOD OF RECORD.--August 1930 to current year.

REVISED RECORDS.--WSP 951: 1935. WSP 1301: 1933-50 (adjusted monthly runoff). WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 436.40 ft, National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1948, at datum 2.0 ft higher.

REMARKS.--Records fair. Doubtful or no gage-height record Oct. 1-19, May 2 to Aug. 10, Aug. 24 to Sept. 30. Considerable regulation by Squa Pan Lake, capacity 2,893,000,000 ft^3, and by Millinocket Lake, capacity 1,110,000,000 ft^3 used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--54 years, 2,688 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,400 ft^3/s Apr. 19, 1983, gage height, 13.73 ft present datum; maximum gage height, 20.91 ft Dec. 24, 1973, (backwater from ice); minimum daily discharge, 75 ft^3/s Feb. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,500 ft^3/s June 2; maximum gage height, 13.46 ft Apr. 17 (backwater from ice); minimum daily discharge, 295 ft^3/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	590	588	7950	2220	1260	1500	2100	20400	21200	6000	1650	570
2	540	566	6660	2170	1260	1510	2090	20300	25000	5400	1500	550
3	500	575	5850	2100	1260	1520	2090	18000	23000	4500	1350	525
4	460	920	4300	2050	1260	1490	2120	14500	16000	3650	1170	510
5	480	1550	3200	2000	1270	1430	2250	13500	11500	2900	1040	670
6	1020	2270	3100	1970	1280	1330	2480	14200	8600	2850	900	680
7	2800	3080	3350	1920	1320	1270	2750	14000	6700	2750	820	680
8	2820	3500	3700	1870	1350	1220	3350	12500	5300	3100	730	460
9	2600	3170	4350	1820	1390	1170	3950	11000	4500	3500	650	425
10	2000	2700	4850	1790	1400	1120	4250	10200	3950	3100	590	395
11	1650	2650	4600	1750	1380	1100	4600	9300	3400	2750	553	365
12	1380	4430	4250	1710	1330	1090	5100	8550	2950	2600	518	345
13	1250	5950	3700	1680	1300	1080	5600	9000	2500	2850	499	330
14	1600	5490	3750	1630	1260	1080	6400	9700	2600	2650	485	325
15	1930	4340	3950	1600	1270	1080	7800	10500	2600	2550	575	330
16	1900	3710	4400	1560	1300	1080	12500	10400	2550	2900	1020	300
17	1650	3560	5000	1520	1330	1080	17000	8700	2350	3400	2840	300
18	1400	4220	4800	1490	1390	1070	18000	7200	2100	3700	2740	300
19	1150	4200	4450	1470	1450	1090	17800	6400	3000	3200	2130	295
20	1070	3750	4000	1430	1500	1120	17000	5500	5600	2750	1580	300
21	965	3620	3650	1410	1500	1150	16500	5000	5550	2350	1220	295
22	890	3600	3300	1380	1490	1240	15800	4550	4400	2000	1010	490
23	811	3910	3100	1360	1470	1350	15500	4100	3500	1650	879	540
24	762	4060	2850	1340	1430	1550	17000	3950	2750	1850	750	520
25	729	5600	2650	1320	1410	1900	19500	4000	2200	2300	799	475
26	698	16300	2500	1310	1420	2170	21300	3750	5450	2200	1080	455
27	673	18500	2400	1300	1460	2420	21000	3400	7580	2100	1030	415
28	648	16800	2450	1280	1500	2430	20700	3100	7920	2400	960	395
29	630	13500	2440	1280	1500	2350	20600	3250	6900	2550	750	375
30	614	10100	2350	1270	---	2240	20700	5500	6200	2200	640	360
31	607	---	2280	1260	---	2150	---	12500	---	1900	610	---
TOTAL	36817	157209	120180	50260	39740	45380	327830	286950	207850	90600	33068	12975
MEAN	1188	5240	3877	1621	1370	1464	10930	9256	6928	2923	1067	433
MAX	2820	18500	7950	2220	1500	2430	21300	20400	25000	6000	2840	680
MIN	460	566	2280	1260	1260	1070	2090	3100	2100	1650	485	295

CAL YR 1983 TOTAL 1233032 MEAN 3378 MAX 42500 MIN 270
WTR YR 1984 TOTAL 1408859 MEAN 3849 MAX 25000 MIN 295

BEST COPY AVAILABLE

01017100 AROOSTOOK RIVER AT CARIBOU, ME
(National stream-quality accounting network station)

LOCATION.--Lat 46°50'57", long 68°00'12", Aroostook County, Hydrologic Unit 01010004, on left bank of powerhouse intake pool of Maine Public Service Corporation at Caribou Dam.

DRAINAGE AREA.--1,943 mi².

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to September 1981.
WATER TEMPERATURES: October 1975 to September 1981.

REMARKS.--Water-discharge records for Aroostook River at Washburn (station 01017000) are used for computation of mean daily discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 194 micromhos July 20, 1976; minimum, 35 micromhos May 2, 1979.
WATER TEMPERATURES: Maximum, 27.5°C Aug. 17, 19, 1978; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	DISCHARGE, IN CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 08...	1130	4100	71	6.9	8.0	3.5	1.8	760	13.0	98	560	E8600
FEB 07...	1400	1550	90	6.6	7.0	0.0	1.1	756	12.0	83	K340	140
MAY 08...	0700	14700	41	7.2	6.0	7.0	<1.0	765	12.2	100	150	45
AUG 30...	1100	750	87	8.0	23.5	23.0	0.8	758	9.0	106	520	35

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
NOV 08...	32	10	1.8	2.1	0.5	24	9.5	2.4	0.1	4.5	64	46
FEB 07...	39	12	2.1	2.1	0.4	31	8.3	3.1	<0.1	4.4	66	51
MAY 08...	18	5.6	1	0.9	0.3	13	6.1	1.1	<0.1	3.3	37	27
AUG 30...	41	13	2.1	1.9	0.4	33	6.4	2.1	<0.1	3.5	70	50

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

E ESTIMATED

BEST COPY AVAILABLE

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
NOV 08...	0.38	0.17	0.22	3.60	0.02	0.01	0.02	70	<1	18.00
FEB 07...	0.5	0.04	0.05	0.6	0.05	0.01	<0.01	30	1	17.00
MAY 08...	0.14	0.41	0.53	3.90	<0.01	<0.01	<0.01	60	<1	10.00
AUG 30...	<0.1	<0.01	0.01	1.10	<0.01	<0.01	<0.01	60	1	15.00

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)
NOV 08...	<0.50	<1	<1	<3.00	14	100	2	30	6	<1.0
FEB 07...	<0.50	<1	<1	3.00	1	50	3	<4.00	3	<0.1
MAY 08...	<1.00	<1	<1	<3.00	15	60	5	<4.00	6	<0.1
AUG 30...	1.00	<1	<1	<3.00	1	80	1	<4.00	7	0.3

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 08...	<10	2	<1	<1	60	<6.0	<3.00	4	44	100
FEB 07...	<10	7	<1	<1	70	<6.0	4.00	1	4.2	100
MAY 08...	<10	3	<1	<1	30	<6.0	5.00	13	516	47
AUG 30...	<10	<1	<1	<1	80	<6.0	6.00	22	45	--

BEST COPY AVAILABLE

01016500 ST. CROIX RIVER AT VANCEBORO, ME
(International gaging station)

LOCATION.--Lat 45°34'08", long 67°25'47", Washington County, Hydrologic Unit 01050001, on right bank at international highway bridge in Vanceboro and 400 ft downstream from outlet of Spednik Lake.

DRAINAGE AREA.--413 mi².

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 367.75 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, combined usable capacity, about 13,200,000,000 ft³. Final regulation is at Spednik Lake Dam about 400 ft upstream. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--56 years, 735 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,730 ft³/s June 3, 1984, gage height, 11.28 ft; minimum daily, 1.9 ft³/s Oct. 22, Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,730 ft³/s June 3, gage height, 11.28 ft; Minimum daily, 241 ft³/s Nov. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	821	296	246	1120	1540	767	1180	1810	1360	886	1850	1410
2	811	296	245	1110	1400	768	1070	1860	3250	886	1830	1350
3	805	296	247	1120	1480	769	1060	1730	6210	1150	1800	1290
4	802	294	248	1110	1350	770	800	1660	5460	1290	1790	1250
5	792	291	248	1110	1120	772	384	1810	4560	1280	1770	1130
6	800	291	250	1100	1350	1160	350	1930	3810	1280	1750	846
7	796	291	257	1100	1500	1510	275	2060	2580	1290	1730	843
8	787	291	259	1100	1500	1600	270	1890	1810	1290	1710	823
9	781	291	260	1280	1080	1430	270	1790	1650	1300	1690	823
10	771	291	260	1460	1040	1370	270	1660	1640	1940	1680	810
11	762	291	262	1460	1460	1400	272	1650	1390	2360	1650	809
12	757	294	264	1390	1460	1540	280	1160	1270	3450	1630	804
13	752	299	268	1080	1450	1440	283	1210	1130	3560	1630	791
14	540	296	276	1510	1440	1680	285	1420	939	2440	1610	787
15	422	296	285	1690	1440	1540	290	2070	885	1940	1600	778
16	418	296	289	1590	986	1540	291	2320	884	1450	1590	710
17	413	296	296	1670	708	1530	293	2500	885	1330	1570	616
18	413	302	296	1650	711	1520	296	2360	883	1320	1540	581
19	413	304	299	1660	718	1510	299	2110	883	1310	1520	581
20	413	304	300	1650	724	1500	300	1880	882	1310	1510	581
21	407	304	301	1230	726	1500	305	1670	885	1310	1490	581
22	407	304	302	660	730	1490	310	1350	883	1300	1500	568
23	407	308	306	912	879	1480	320	1150	881	1710	1720	565
24	407	312	307	1320	849	1460	502	1070	881	1830	1770	565
25	340	289	307	1600	731	1430	502	1200	876	1810	1740	567
26	299	292	681	1590	741	1420	1020	1280	880	1900	1690	566
27	299	297	1070	1570	748	1410	1440	1270	769	1910	1640	549
28	299	269	1070	1560	754	1400	1600	1270	703	1610	1580	549
29	299	241	798	1290	762	1400	1730	1260	811	1900	1530	549
30	296	243	931	1450	---	1380	1810	1280	884	1880	1470	614
31	296	---	1120	1540	---	1250	---	1170	---	1870	1440	---
TOTAL	17025	8765	12549	41682	31377	41736	18357	50850	50814	52092	51020	23286
MEAN	549	292	405	1345	1087	1346	612	1640	1694	1680	1646	776
MAX	821	312	1120	1690	1540	1680	1810	2500	6210	3560	1850	1410
MIN	296	241	246	660	708	767	270	1070	703	886	1440	549

CAL YR 1983 TOTAL 328285 MEAN 899 MAX 4420 MIN 228
WTR YR 1984 TOTAL 399553 MEAN 1092 MAX 6210 MIN 241

BEST COPY AVAILABLE

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME

LOCATION.--Lat 45°10'23", long 67°46'06", Washington County, Hydrologic Unit 01050001. on left bank at Big Falls, 0.5 mi southeast of village of Grand Lake Stream, and 0.8 mi downstream from oulet dam of Grand Lake.

DRAINAGE AREA.--227 mi².

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 273.96 ft National Geodetic Vertical Datum of 1929.

REMARKS. Records excellent. Flow completely regulated by Grand Lake, 0.8 mi upstream, and other lakes, combined usable capacity about 8,250,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years, 402 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,840 ft³/s June 12, 1952, gage height, 6.35 ft; minimum daily, 5 ft³/s Dec. 3-6, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,320 ft³/s June 2, 3 gage height, 6.20 ft; minimum daily discharge, 137 ft³/s Nov. 27-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	167	139	366	776	344	493	600	1370	454	599	660
2	396	165	139	366	767	344	492	600	2110	453	595	658
3	395	164	139	366	759	345	494	599	2310	455	594	646
4	392	167	139	491	563	348	495	601	2280	452	594	636
5	391	165	139	536	411	431	494	608	2010	453	594	635
6	391	166	140	496	414	481	536	608	1520	455	590	630
7	389	167	148	497	414	482	541	604	1230	456	589	623
8	384	165	146	497	413	480	543	604	963	466	589	617
9	381	164	173	699	410	478	545	715	856	500	587	613
10	378	164	190	818	410	478	545	807	854	549	584	609
11	372	164	190	825	410	478	547	801	848	556	582	610
12	369	166	189	817	411	478	549	798	843	559	579	619
13	312	167	205	872	410	743	549	808	839	559	578	612
14	219	164	224	910	410	927	551	867	835	557	575	609
15	198	163	219	905	428	656	554	942	837	552	574	605
16	198	165	219	898	386	492	559	913	826	551	574	602
17	195	175	219	885	352	492	569	858	820	553	573	503
18	195	164	221	874	352	492	574	737	676	550	568	447
19	193	164	222	865	352	496	575	667	529	553	564	443
20	192	163	222	857	352	497	579	538	529	549	564	439
21	190	165	275	848	352	497	581	464	526	549	560	440
22	189	167	361	845	352	500	582	462	526	549	556	433
23	189	167	229	840	404	502	583	459	523	549	641	427
24	189	7	229	826	399	502	584	463	520	549	698	424
25	189	[illegible]	404	811	341	499	592	564	516	545	694	420
26	187	140	877	802	342	497	594	616	525	573	687	420
27	186	137	652	793	341	497	598	618	484	604	681	417
28	177	137	312	787	342	497	599	614	451	604	675	409
29	172	137	335	780	344	495	599	615	453	599	670	406
30	168	139	370	774	---	498	599	884	455	599	664	402
31	167	---	369	772	---	497	---	1030	---	599	660	---
TOTAL	8344	4820	8035	22718	12417	15443	16695	21064	28064	16551	18832	16014
MEAN	269	161	259	733	428	498	557	679	935	534	607	534
MAX	401	175	877	910	776	927	599	1030	2310	604	698	660
MIN	167	137	139	366	341	344	492	459	451	452	556	402

CAL YR 1983 TOTAL 153174 MEAN 420 MAX 2580 MIN 130
WTR YR 1984 TOTAL 188997 MEAN 516 MAX 2310 MIN 137

BEST COPY AVAILABLE

01021000 ST. CROIX RIVER AT BARING, ME
(International gaging station)

LOCATION.--Lat 45°08'12", long 67°19'05", Washington County, Hydrologic Unit 01050001, on right bank at site of destroyed international highway bridge at Baring.

DRAINAGE AREA.--1,374 mi².

PERIOD OF RECORD.--Discharge: October 1958 to current year.
Water temperatures: October 1959 to September 1976.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 66.23 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, Grand, and other lakes, combined capacity about 25,000,000,000 ft³. Final regulation is at Woodland, 5.6 mi upstream from gage. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--25 years (water years 1960-84), 2,799 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft³/s May 29, 1961, gage height, 12.76 ft; minimum daily, 262 ft³/s Oct. 20, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,800 ft³/s June 3, gage height, 11.50 ft; minimum daily, 794 ft³/s Nov. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1760	1020	3980	3200	3120	4970	3260	5430	7180	3630	2930	2410
2	1820	937	3950	3090	3200	4050	3290	5210	12300	3130	2750	2250
3	1890	939	3610	3010	3130	4000	3350	4690	15400	3060	2700	1570
4	1700	1000	2920	2980	3190	3950	4040	5240	15400	2620	2690	1140
5	1910	866	2610	2830	3790	3940	5110	5930	15200	2730	2690	1080
6	2120	873	2630	2530	3700	3410	8290	5480	14200	2850	2380	1130
7	1710	840	3200	2570	3060	3090	11900	5430	11600	3150	2680	1170
8	1890	805	3880	2580	3220	3090	12900	5380	8970	4770	2700	1320
9	1770	797	2890	2570	3230	3060	10400	5400	7260	6100	2690	1980
10	1750	794	3120	2670	3510	3060	8180	5010	5350	6900	2430	2350
11	1750	822	3150	2870	3360	3060	6620	4650	3870	6740	2110	2640
12	1760	841	3120	3350	3360	3060	6210	4610	5040	6650	2330	2470
13	1920	831	3850	3500	3310	3060	5440	4700	4160	6560	2200	2170
14	1780	816	8350	3490	3170	3060	5290	4500	3330	6500	2230	2240
15	1640	824	11400	2920	3300	3050	5450	4790	3150	5520	2260	2420
16	1420	878	11300	3020	3950	3050	5810	5240	2890	4370	2480	2570
17	1210	1690	9040	3010	5650	3090	7740	4950	2810	3970	2380	2300
18	1470	988	6970	3120	6400	3130	8790	4860	3020	3480	2320	2080
19	1330	906	5900	3000	5960	3290	8950	4670	2780	3150	2240	2060
20	1560	878	5320	3030	5720	3260	7770	4660	2710	3150	2360	2060
21	1360	920	4170	3240	5110	3140	6950	4210	2660	2970	2350	2020
22	1590	1100	4010	3240	4960	3270	6310	3490	2620	2910	2320	2010
23	1390	1010	2800	3250	4460	3310	5570	3160	2370	2840	2510	2010
24	1090	1020	2750	3290	4550	3310	5310	3020	2420	2750	2730	2010
25	1010	3430	2710	3250	5240	3290	5580	2790	2520	2740	2510	1970
26	970	7070	2900	3100	5790	3320	5910	2690	2800	2980	2380	1920
27	939	8480	2900	3280	6070	3180	6160	2630	3360	2990	2460	1830
28	948	7070	2800	3250	5870	3310	6080	2580	3750	2930	2410	1490
29	951	5920	3110	3200	5870	3370	6020	2630	4870	2780	2410	1380
30	938	5110	3280	3150	---	3320	5490	3030	4490	2410	2410	1330
31	931	---	3370	3100	---	3280	---	3820	---	3060	2410	---
TOTAL	46277	59495	135990	94690	125250	103830	198170	134880	178430	120390	76450	57380
MEAN	1493	1983	4387	3055	4319	3349	6606	4351	5948	3884	2466	1913
MAX	2120	8480	11400	3500	6400	4970	12900	5930	15400	6900	2930	2640
MIN	931	794	2610	2530	3060	3050	3260	2580	2370	2410	2110	1080

CAL YR 1983 TOTAL 1139680 MEAN 3122 MAX 13300 MIN 794
WTR YR 1984 TOTAL 1331232 MEAN 3637 MAX 15400 MIN 794

BEST COPY AVAILABLE

01021050 ST. CROIX RIVER AT MILLTOWN, ME
(National stream-quality accounting network station)

LOCATION.--Lat 45°10'11", long 67°17'50", Washington County, Hydrologic Unit 01050001, on right bank 30 ft downstream from international highway bridge at Milltown.

DRAINAGE AREA.--1,460 mi².

PERIOD OF RECORD.--Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1972 to current year.
pH: July 1972 to current year.
WATER TEMPERATURES: September 1969 to current year.
DISSOLVED OXYGEN: September 1969 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1969.

REMARKS.--Monitor not operated during winter periods, water years 1970 to 1975. Other interruptions in the record were due to malfunctions of the monitor or restrictions in pumping system from sawdust in river.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 334 micromhos Aug. 6, 1979; minimum, 23 micromhos May 2-4, 6, 1979.
pH: Maximum, 11.6 units Sept. 28, 1974; minimum, 5.3 units Oct. 18, 1973.
WATER TEMPERATURES: Maximum, 28.0°C July 21, 22, 1977; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum, 14.4 mg/L Nov. 16, 1976; minimum, 0.5 mg/L Aug. 19, 1975, Aug. 28, 1980.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum 155 micromhos Nov. 10; minimum, 31 micromhos June 4-6.
pH: Maximum 7.0 units Oct. 29-31, Nov. 1, 5-11, 13, 14, 25, Sept. 12-14; minimum, 6.2 units Dec 15, 20, 21, 23, 26, 27, June 3-7.
WATER TEMPERATURES: Maximum 26.0°C Aug. 6, 7; minimum, 0.0°C on many days during winter period.
DISSOLVED OXYGEN: Maximum, 14.1 mg/L Apr. 9; minimum 5.9 mg/L July 24.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV												
09...	1015	801	150	7.0	10.0	7.0	2.0	772	10.5	85	29	330
MAR												
06...	1700	3160	57	6.8	9.0	0.5	1.2	760	12.9	90	38	23
APR												
25...	1000	5620	42	6.8	8.5	6.0	<1.0	758	12.7	103	K20	100
AUG												
08...	1200	2700	63	6.7	23.0	24.5	1.4	762	6.1	73	67	200

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV												
09...	17	5.6	0.8	23	1.4	22	18	23	0.1	2.1	100	88
MAR												
06...	12	3.6	0.6	6.5	0.6	10	7.9	7.0	<0.1	2.9	43	36
APR												
25...	9	2.8	0.6	4.0	0.5	8.0	4.2	4.7	<0.1	2.4	30	24
AUG												
08...	14	4.4	0.6	6.2	0.7	14	6.7	5.5	<0.1	1.4	46	34

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BEST COPY AVAILABLE

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
NOV 09...	0.17	0.25	0.32	3.30	0.05	0.02	0.02	80	<1	21.00
MAR 06...	<0.1	0.17	0.22	0.4	<0.01	<0.01	<0.01	90	1	13.00
APR 25...	<0.1	0.09	0.12	0.3	0.02	0.01	<0.01	70	<1	10.00
AUG 08...	<0.1	0.03	0.04	0.3	0.06	<0.01	<0.01	90	1	12.00

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 09...	<0.50	<1	<1	<3.00	3	140	3	30	92	<1.0
MAR 06...	<0.50	<1	<1	<3.00	<1	80	1	<4.00	32	<0.1
APR 25...	<1.00	<1	<1	<3.00	2	80	1	<4.00	21	<0.1
AUG 08...	<0.00	<1	<1	<3.00	1	120	5	6.00	40	0.5

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 09...	<10	3	<1	<1	30	<6.0	20	6	13	94
MAR 06...	<10	1	<1	<1	20	<6.0	30	13	111	56
APR 25...	<10	<1	<1	<1	20	<6.0	20	12	182	52
AUG 08...	<10	<1	<1	1	20	<6.0	5.00	19	139	--

BEST COPY AVAILABLE

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	86	79	82	139	134	137	58	55	57	59	57	58
2	89	86	87	132	116	123	58	57	57	61	57	59
3	89	87	88	130	119	125	61	57	58	65	60	63
4	91	80	85	136	130	132	69	62	65	66	64	66
5	91	88	91	137	127	131	71	68	70	68	66	66
6	87	79	85	144	132	138	73	71	73	72	68	71
7	88	77	82	147	142	145	79	63	71	71	70	70
8	91	87	90	153	145	148	67	56	58	70	68	70
9	86	81	84	153	152	152	67	58	61	69	68	68
10	87	84	86	155	151	153	64	62	62	73	69	71
11	86	83	85	151	145	148	67	62	64	74	71	72
12	85	83	84	152	143	148	69	64	66	71	65	68
13	86	83	84	150	144	146	73	64	68	66	62	64
14	91	84	87	144	139	140	62	45	53	63	62	63
15	91	89	90	140	137	138	45	39	42	69	64	67
16	99	91	96	138	133	136	---	---	---	71	69	70
17	107	95	98	133	95	125	---	---	---	69	67	69
18	108	105	107	100	76	86	---	---	---	68	65	67
19	106	96	100	106	101	103	---	---	---	68	67	67
20	107	97	102	111	106	109	47	44	45	68	67	68
21	106	91	95	128	111	118	53	48	51	68	66	67
22	107	101	104	129	125	127	54	53	54	68	66	67
23	101	86	92	125	117	120	64	53	57	69	66	68
24	103	98	100	124	117	121	67	64	66	70	66	68
25	133	105	121	126	71	104	64	58	62	77	67	72
26	133	123	129	68	49	57	57	54	56	73	69	71
27	135	131	133	49	47	48	58	55	57	70	68	69
28	139	134	136	50	47	48	63	58	61	71	68	70
29	134	121	126	51	48	49	75	61	66	70	67	69
30	132	123	127	55	50	52	64	59	61	71	68	69
31	139	131	134	---	---	---	60	58	59	70	69	69
MONTH	139	77	100	155	47	117	79	39	60	77	57	68

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	73	69	72	---	---	---	64	64	64	45	43	44
2	71	68	70	---	---	---	65	64	64	46	44	45
3	72	69	71	---	---	---	65	64	64	49	46	48
4	74	70	72	---	---	---	64	55	61	50	46	49
5	76	65	70	---	---	---	54	52	52	47	45	46
6	65	62	64	---	---	---	52	41	48	47	47	47
7	72	61	66	60	59	60	41	36	38	48	46	47
8	67	64	65	61	58	60	36	33	34	46	44	45
9	67	63	65	62	61	62	33	32	33	45	44	44
10	71	61	64	---	---	---	37	33	35	50	45	47
11	67	63	66	66	63	65	40	37	39	53	51	52
12	67	65	66	69	64	67	41	40	40	53	51	52
13	67	65	66	68	66	68	45	40	42	53	50	51
14	66	64	65	68	65	67	45	44	45	52	50	50
15	70	66	68	71	68	69	45	44	45	53	47	51
16	69	64	66	68	64	66	46	44	45	48	46	47
17	64	51	57	67	64	66	44	39	42	48	47	47
18	51	47	49	65	63	63	39	37	38	48	47	47
19	48	47	47	63	61	62	36	36	36	49	48	48
20	50	48	49	61	60	61	38	36	36	48	48	48
21	52	49	50	62	61	62	39	38	38	52	48	49
22	52	51	51	65	62	64	41	38	39	55	52	53
23	56	52	53	65	64	64	41	40	41	56	52	54
24	57	54	56	64	61	63	43	41	42	60	56	58
25	54	52	53	62	60	61	45	43	44	62	58	60
26	52	49	51	63	61	62	44	41	43	64	61	63
27	---	---	---	65	60	62	41	41	41	66	62	64
28	---	---	---	64	62	63	42	41	42	73	63	67
29	---	---	---	64	62	63	43	42	42	72	66	68
30	---	---	---	65	62	63	44	42	43	76	66	70
31	---	---	---	64	62	63	---	---	---	66	57	64
MONTH	76	47	61	71	58	64	65	32	44	76	43	52

BEST COPY AVAILABLE

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	56	42	50	52	50	51	58	56	57	71	70	71
2	41	37	39	56	53	55	60	58	60	70	68	69
3	36	33	35	57	55	56	62	58	60	81	69	76
4	33	31	32	63	56	59	64	61	63	85	72	80
5	32	31	31	62	59	60	64	62	63	71	54	61
6	32	31	32	61	60	61	69	60	65	53	49	51
7	35	32	33	60	57	58	69	65	66	49	42	45
8	38	35	36	58	48	53	65	64	65	44	42	43
9	40	38	39	49	44	47	65	64	64	44	42	43
10	48	40	42	44	39	42	69	64	66	46	44	45
11	53	49	52	43	40	42	74	68	70	48	46	47
12	51	46	48	43	43	43	73	68	70	54	46	49
13	49	46	47	43	42	43	73	69	71	68	55	62
14	58	49	54	43	42	43	73	70	71	78	68	73
15	62	58	61	46	42	43	70	67	69	74	68	72
16	77	61	65	50	46	47	71	68	69	67	62	64
17	77	59	63	50	50	50	70	67	68	62	60	61
18	61	58	60	52	49	50	73	70	72	66	63	65
19	62	57	59	55	52	54	70	68	70	66	64	65
20	63	62	62	54	53	54	70	67	68	66	65	65
21	64	62	63	57	54	55	69	65	67	65	62	64
22	65	63	64	63	55	60	72	66	69	66	63	65
23	69	64	66	61	58	59	71	67	68	68	65	66
24	69	67	68	63	61	62	70	65	69	69	68	68
25	67	65	66	62	58	60	67	64	65	69	66	68
26	65	60	63	59	56	58	69	66	68	68	67	67
27	63	57	60	58	55	56	68	66	67	---	---	---
28	57	52	55	59	57	58	69	64	67	---	---	---
29	51	48	50	61	57	60	70	67	69	---	---	---
30	51	47	48	67	60	61	71	67	70	---	---	---
31	---	---	---	72	57	62	71	70	71	---	---	---
MONTH	77	31	51	72	39	54	74	56	67	85	42	62
YEAR	155	31	67									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.8	6.7	6.8	7.0	6.9	6.9	6.5	6.5	6.5	6.4	6.3	6.3
2	6.8	6.8	6.8	6.9	6.9	6.9	6.6	6.5	6.6	6.4	6.3	6.4
3	6.9	6.7	6.8	6.9	6.9	6.9	6.6	6.5	6.5	6.4	6.4	6.4
4	6.8	6.7	6.7	6.9	6.9	6.9	6.6	6.6	6.6	6.5	6.4	6.4
5	6.8	6.7	6.7	7.0	6.9	7.0	6.6	6.6	6.6	6.5	6.4	6.4
6	6.8	6.7	6.8	7.0	7.0	7.0	6.8	6.6	6.7	6.5	6.5	6.5
7	6.8	6.7	6.7	7.0	7.0	7.0	6.8	6.6	6.7	6.5	6.5	6.5
8	6.8	6.7	6.8	7.0	7.0	7.0	6.7	6.6	6.6	6.5	6.5	6.5
9	6.8	6.7	6.8	7.0	7.0	7.0	6.6	6.5	6.6	6.5	6.5	6.5
10	6.8	6.7	6.8	7.0	6.9	7.0	6.6	6.6	6.6	6.6	6.5	6.5
11	6.8	6.8	6.8	7.0	6.9	7.0	6.6	6.5	6.6	6.6	6.5	6.5
12	6.8	6.7	6.8	6.9	6.9	6.9	6.5	6.5	6.5	6.5	6.5	6.5
13	6.8	6.7	6.8	7.0	6.9	7.0	6.6	6.4	6.5	6.5	6.5	6.5
14	6.8	6.7	6.8	7.0	6.9	7.0	6.5	6.3	6.4	6.5	6.5	6.5
15	6.8	6.7	6.7	6.9	6.9	6.9	6.3	6.2	6.3	6.5	6.5	6.5
16	6.8	6.8	6.8	6.9	6.9	6.9	---	---	---	6.5	6.5	6.5
17	6.8	6.8	6.8	6.9	6.7	6.8	---	---	---	6.5	6.5	6.5
18	6.3	6.8	6.8	6.7	6.6	6.7	---	---	---	6.5	6.5	6.5
19	6.8	6.7	6.8	6.8	6.7	6.7	---	---	---	6.6	6.5	6.5
20	6.8	6.8	6.8	6.8	6.7	6.7	6.2	6.2	6.2	6.5	6.5	6.5
21	6.9	6.8	6.8	6.9	6.7	6.8	6.3	6.2	6.2	6.5	6.5	6.5
22	6.9	6.8	6.9	6.9	6.9	6.9	6.3	6.3	6.3	6.5	6.5	6.5
23	6.9	6.8	6.8	6.9	6.8	6.9	6.3	6.2	6.3	6.6	6.5	6.5
24	6.9	6.8	6.8	6.9	6.8	6.9	6.4	6.3	6.3	6.6	6.5	6.5
25	6.9	6.8	6.9	7.0	6.8	6.9	6.3	6.3	6.3	6.6	6.5	6.6
26	6.9	6.7	6.9	6.7	6.7	6.7	6.3	6.2	6.2	6.6	6.5	6.6
27	6.9	6.9	6.9	6.7	6.6	6.6	6.2	6.2	6.2	6.6	6.6	6.6
28	6.9	6.9	6.9	6.6	6.4	6.5	6.3	6.3	6.3	6.6	6.6	6.6
29	7.0	6.9	6.9	6.5	6.4	6.5	6.4	6.3	6.3	6.6	6.6	6.6
30	7.0	7.0	7.0	6.5	6.4	6.5	6.3	6.3	6.3	6.6	6.6	6.6
31	7.0	6.9	7.0	---	---	---	6.4	6.3	6.3	6.6	6.6	6.6
MONTH	7.0	6.7	6.8	7.0	6.4	6.9	6.8	6.2	6.4	6.6	6.3	6.5

BEST COPY AVAILABLE

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.6	6.6	6.6	---	---	---	6.8	6.8	6.8	6.7	6.6	6.6
2	6.6	6.6	6.6	---	---	---	6.8	6.8	6.8	6.6	6.5	6.6
3	6.6	6.6	6.6	---	---	---	6.8	6.7	6.7	6.7	6.5	6.6
4	6.6	6.6	6.6	---	---	---	6.7	6.7	6.7	6.7	6.6	6.6
5	6.6	6.5	6.5	---	---	---	6.7	6.7	6.7	6.6	6.6	6.6
6	6.5	6.5	6.5	---	---	---	6.8	6.6	6.7	6.7	6.6	6.6
7	6.6	6.4	6.5	6.7	6.7	6.7	6.6	6.5	6.6	6.7	6.6	6.6
8	6.5	6.5	6.5	6.7	6.7	6.7	6.5	6.4	6.5	6.6	6.6	6.6
9	6.5	6.5	6.5	6.8	6.7	6.7	6.6	6.5	6.5	6.6	6.6	6.6
10	6.6	6.5	6.5	---	---	---	6.6	6.6	6.6	6.6	6.5	6.6
11	6.6	6.5	6.6	6.8	6.7	6.8	6.7	6.6	6.7	6.7	6.5	6.6
12	6.6	6.6	6.6	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.6	6.6
13	6.6	6.5	6.6	6.8	6.8	6.8	6.7	6.7	6.7	6.6	6.6	6.6
14	6.6	6.6	6.6	6.8	6.7	6.8	6.7	6.6	6.7	6.6	6.5	6.5
15	6.6	6.6	6.6	6.8	6.7	6.8	6.6	6.6	6.6	6.6	6.5	6.6
16	6.6	6.6	6.6	6.7	6.7	6.7	6.7	6.6	6.6	6.6	6.6	6.6
17	6.6	6.6	6.6	6.7	6.7	6.7	6.6	6.7	6.6	6.6	6.5	6.6
18	6.6	6.5	6.6	6.7	6.7	6.7	6.6	6.5	6.5	6.6	6.5	6.6
19	6.5	6.5	6.5	6.8	6.7	6.7	6.5	6.5	6.5	6.7	6.6	6.6
20	6.5	6.5	6.5	6.7	6.7	6.7	6.5	6.5	6.5	6.6	6.5	6.6
21	6.5	6.5	6.5	6.7	6.7	6.7	6.6	6.5	6.5	6.5	6.5	6.5
22	6.5	6.5	6.5	6.7	6.7	6.7	6.6	6.6	6.6	6.6	6.5	6.5
23	6.6	6.5	6.5	6.7	6.6	6.7	6.6	6.6	6.6	6.6	6.5	6.5
24	6.6	6.6	6.6	6.7	6.7	6.7	6.7	6.5	6.6	6.6	6.5	6.6
25	6.6	6.5	6.6	6.7	6.6	6.7	6.7	6.6	6.6	6.6	6.5	6.6
26	6.6	6.6	6.6	6.7	6.7	6.7	6.7	6.6	6.6	6.6	6.5	6.6
27	---	---	---	6.8	6.7	6.7	6.7	6.6	6.6	6.6	6.5	6.5
28	---	---	---	6.8	6.7	6.8	6.7	6.6	6.6	6.6	6.5	6.5
29	---	---	---	6.7	6.7	6.8	6.7	6.6	6.6	6.6	6.5	6.5
30	---	---	---	6.9	6.8	6.9	6.7	6.6	6.6	6.6	6.5	6.6
31	---	---	---	6.9	6.8	6.8	---	---	---	6.6	6.5	6.5
MONTH	6.6	6.4	6.6	6.9	6.6	6.7	6.8	6.4	6.6	6.7	6.5	6.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.5	6.5	6.5	6.6	6.5	6.6	6.8	6.7	6.7	6.9	6.8	6.8
2	6.5	6.4	6.4	6.6	6.5	6.6	6.8	6.7	6.7	6.9	6.8	6.9
3	6.4	6.2	6.3	6.6	6.5	6.6	6.8	6.7	6.8	6.9	6.8	6.8
4	6.3	6.2	6.2	6.7	6.5	6.6	6.8	6.7	6.8	6.9	6.8	6.9
5	6.2	6.2	6.2	6.7	6.5	6.6	6.8	6.7	6.8	6.8	6.8	6.8
6	6.2	6.2	6.2	6.6	6.5	6.6	6.8	6.7	6.7	6.8	6.8	6.8
7	6.3	6.2	6.3	6.7	6.6	6.6	6.8	6.7	6.8	6.8	6.7	6.8
8	6.3	6.3	6.3	6.6	6.5	6.6	6.7	6.6	6.7	6.8	6.8	6.8
9	6.4	6.3	6.3	6.6	6.5	6.6	6.7	6.6	6.7	6.9	6.8	6.8
10	6.4	6.3	6.3	6.6	6.5	6.5	6.7	6.6	6.7	6.9	6.8	6.9
11	6.5	6.3	6.4	6.6	6.6	6.6	6.8	6.7	6.7	6.9	6.8	6.9
12	6.5	6.4	6.4	6.6	6.6	6.6	6.8	6.7	6.7	7.0	6.7	6.8
13	6.5	6.4	6.4	6.6	6.5	6.6	6.8	6.7	6.7	7.0	6.8	6.9
14	6.4	6.3	6.4	6.7	6.5	6.6	6.8	6.7	6.7	7.0	6.8	6.9
15	6.6	6.4	6.5	6.6	6.5	6.6	6.7	6.7	6.7	6.9	6.8	6.9
16	6.6	6.5	6.5	6.6	6.5	6.6	6.7	6.7	6.7	6.9	6.8	6.8
17	6.7	6.5	6.6	6.6	6.5	6.6	6.8	6.6	6.7	6.9	6.7	6.8
18	6.6	6.5	6.6	6.6	6.5	6.6	6.8	6.7	6.8	6.9	6.8	6.8
19	6.6	6.6	6.6	6.6	6.5	6.6	6.8	6.7	6.8	6.9	6.8	6.9
20	6.7	6.6	6.6	6.7	6.5	6.6	6.8	6.7	6.8	6.9	6.8	6.9
21	6.7	6.6	6.7	6.7	6.6	6.7	6.9	6.7	6.8	6.9	6.8	6.8
22	6.7	6.6	6.7	6.7	6.6	6.7	6.9	6.8	6.8	6.9	6.8	6.8
23	6.8	6.6	6.7	6.7	6.6	6.7	6.9	6.8	6.8	6.9	6.8	6.9
24	6.8	6.6	6.7	6.8	6.7	6.7	6.8	6.8	6.8	6.9	6.8	6.8
25	6.8	6.7	6.7	6.8	6.7	6.8	6.8	6.7	6.8	6.9	6.8	6.8
26	6.7	6.7	6.7	6.8	6.7	6.7	6.9	6.8	6.8	6.9	6.8	6.8
27	6.7	6.7	6.7	6.7	6.7	6.7	6.9	6.8	6.8	---	---	---
28	6.7	6.6	6.6	6.8	6.7	6.7	6.9	6.8	6.8	---	---	---
29	6.7	6.6	6.6	6.8	6.7	6.8	6.9	6.8	6.8	---	---	---
30	6.6	6.5	6.6	6.8	6.7	6.8	6.9	6.8	6.8	---	---	---
31	---	---	---	6.9	6.8	6.8	6.8	6.8	6.8	---	---	---
MONTH	6.8	6.2	6.5	6.9	6.5	6.7	6.9	6.6	6.8	7.0	6.7	6.8
YEAR	7.0	6.2	6.7									

BEST COPY AVAILABLE

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	16.5	17.0	7.5	6.5	7.0	2.0	1.5	2.0	.0	.0	.0
2	17.5	16.5	16.5	8.0	7.0	7.5	1.5	1.5	1.5	.0	.0	.0
3	18.0	16.5	17.0	8.5	7.5	8.0	1.5	1.0	1.5	.0	.0	.0
4	18.0	16.5	17.0	8.5	7.0	8.0	.5	.5	.5	.0	.0	.0
5	16.5	15.0	15.5	7.0	6.0	6.5	1.0	.5	.5	.0	.0	.0
6	16.5	15.5	16.0	7.0	6.0	6.5	1.5	.5	1.0	.5	.0	.0
7	16.5	15.5	15.5	7.5	6.5	7.0	2.5	1.0	2.0	.5	.0	.5
8	15.5	14.5	15.0	7.0	6.0	6.5	1.0	.0	.5	.0	.0	.0
9	15.0	14.5	15.0	6.5	6.5	7.0	.5	.0	.0	.0	.0	.0
10	14.5	13.5	14.0	7.5	6.5	7.0	.5	.0	.5	.0	.0	.0
11	14.0	13.0	13.5	7.5	6.5	7.0	.0	.0	.0	.0	.0	.0
12	14.0	13.0	13.5	8.0	7.5	8.0	.0	.0	.0	.0	.0	.0
13	14.5	14.0	14.5	7.0	4.5	6.0	1.0	.0	.5	.0	.0	.0
14	15.0	14.5	15.0	4.5	3.5	4.0	.5	.5	.5	.0	.0	.0
15	15.0	12.5	13.5	4.5	3.5	4.0	1.0	.5	.5	.0	.0	.0
16	12.5	11.5	12.0	5.0	4.0	4.5	---	---	---	.0	.0	.0
17	12.0	11.5	12.0	6.0	5.0	5.5	---	---	---	.0	.0	.0
18	12.5	11.5	12.0	5.5	3.5	4.5	---	---	---	.0	.0	.0
19	12.5	11.5	12.0	3.5	2.5	3.0	---	---	---	.0	.0	.0
20	11.0	10.5	10.5	2.5	2.0	2.5	.0	.0	.0	.0	.0	.0
21	10.5	9.5	10.0	3.0	2.5	3.0	.0	.0	.0	.0	.0	.0
22	9.5	9.0	9.5	3.5	3.0	3.5	.0	.0	.0	.0	.0	.0
23	10.0	9.0	9.5	3.5	3.5	3.5	.0	.0	.0	.0	.0	.0
24	10.0	9.5	10.0	3.5	3.5	3.5	.0	.0	.0	.0	.0	.0
25	9.5	9.0	9.0	6.0	3.5	4.5	.0	.0	.0	.0	.0	.0
26	9.0	8.0	8.5	5.0	3.0	4.0	.0	.0	.0	.0	.0	.0
27	8.5	7.5	8.0	3.0	2.5	3.0	.0	.0	.0	.0	.0	.0
28	8.0	7.5	8.0	2.5	2.5	2.5	.0	.0	.0	.0	.0	.0
29	9.0	7.5	8.5	2.5	2.0	2.5	.0	.0	.0	.0	.0	.0
30	7.5	6.5	6.5	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0
31	7.0	6.0	6.5	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	18.0	6.0	12.5	8.5	2.0	5.0	2.5	.0	.5	.5	.0	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	---	---	---	4.0	1.5	2.5	12.0	9.5	10.5
2	.0	.0	.0	---	---	---	4.5	2.0	3.0	10.5	10.0	10.0
3	.0	.0	.0	---	---	---	5.0	2.5	3.5	12.0	9.5	10.5
4	.0	.0	.0	---	---	---	5.5	3.0	4.0	10.5	9.5	10.0
5	.0	.0	.0	---	---	---	4.5	3.5	4.0	9.5	8.0	8.5
6	.0	.0	.0	---	---	---	4.0	3.0	3.5	10.5	8.0	9.5
7	.0	.0	.0	1.5	.0	.5	3.5	2.5	3.0	11.5	8.5	10.0
8	.0	.0	.0	1.0	.0	.5	2.5	1.5	2.0	10.5	9.5	10.0
9	.0	.0	.0	.5	.0	.0	1.5	1.0	1.5	11.5	9.5	10.5
10	.0	.0	.0	---	---	---	1.5	1.0	1.0	11.5	10.0	11.0
11	.0	.0	.0	.0	.0	.0	2.5	1.0	2.0	13.0	10.5	11.5
12	.5	.0	.5	.0	.0	.0	2.5	2.0	2.0	12.0	11.5	11.5
13	1.0	.0	.5	.0	.0	.0	3.5	2.0	2.5	13.5	11.5	12.5
14	.5	.5	.5	.0	.0	.0	5.0	2.0	3.5	12.5	12.0	12.5
15	1.0	.5	1.0	.0	.0	.0	4.5	3.0	4.0	13.0	11.5	12.0
16	1.5	.5	1.0	.5	.0	.0	4.5	4.0	4.0	13.0	11.5	12.5
17	1.5	.5	1.0	.5	.5	.5	5.0	4.0	4.5	13.5	11.5	12.5
18	1.0	.0	.5	.0	.0	.0	5.0	4.5	4.5	12.0	11.5	12.0
19	1.0	.5	.5	.5	.0	.0	4.5	3.5	4.0	14.0	11.0	12.5
20	1.0	.5	1.0	.5	.0	.5	5.0	3.0	4.0	14.5	12.5	13.5
21	1.0	.5	1.0	1.0	.5	1.0	4.5	3.5	4.5	15.0	13.0	14.0
22	1.5	.5	1.0	2.0	1.0	1.0	5.5	3.0	4.5	17.0	14.0	15.5
23	2.0	.5	1.5	1.5	1.0	1.0	7.5	4.0	5.5	17.5	15.0	16.5
24	1.5	1.0	1.5	2.0	.5	1.5	6.5	5.5	6.0	18.0	16.0	17.0
25	2.5	1.5	2.0	2.0	.5	1.5	6.0	5.5	6.0	17.5	16.0	17.0
26	1.5	1.0	1.5	3.0	.5	1.5	6.5	5.5	6.0	19.5	16.0	18.0
27	---	---	---	2.5	1.0	1.5	8.0	5.5	7.0	19.5	17.5	18.5
28	---	---	---	3.5	1.0	2.5	9.0	6.5	8.0	18.5	17.5	17.5
29	---	---	---	2.5	1.5	2.0	10.0	7.0	8.5	17.5	15.0	16.5
30	---	---	---	2.0	1.0	1.5	11.0	8.5	9.5	17.0	15.0	16.0
31	---	---	---	3.0	1.5	2.0	---	---	---	16.5	16.0	16.5
MONTH	2.5	.0	.5	3.5	.0	1.0	11.0	1.0	4.5	19.5	8.0	13.0

BEST COPY AVAILABLE

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.0	15.0	15.5	20.5	17.5	19.0	23.0	21.5	22.5	22.0	20.5	21.0
2	15.0	14.0	14.5	22.5	19.0	20.5	24.5	21.5	23.0	21.0	19.5	20.5
3	14.0	13.5	13.5	22.5	20.5	21.5	25.0	22.5	23.5	20.5	19.5	19.5
4	14.5	13.5	14.0	23.5	21.0	22.0	25.5	23.0	24.0	20.0	19.0	19.5
5	15.0	14.0	14.5	23.0	21.5	22.0	25.5	23.5	24.5	19.5	18.5	19.0
6	16.0	15.0	15.5	22.5	21.5	22.0	26.0	24.0	25.0	19.5	19.0	19.5
7	17.5	15.5	16.5	22.5	21.5	22.0	26.0	24.5	25.0	19.0	18.0	18.5
8	18.5	17.0	17.5	22.0	21.0	21.5	24.5	24.0	24.0	19.0	18.0	18.0
9	20.0	17.5	19.0	20.5	20.0	20.0	24.5	24.0	24.0	19.5	18.0	19.0
10	22.0	19.0	20.5	21.0	19.5	20.0	24.0	23.5	24.0	19.5	17.5	18.5
11	23.0	20.5	22.0	21.0	19.0	20.0	25.0	23.5	24.0	19.5	18.0	19.0
12	23.0	20.5	21.5	20.5	19.5	20.0	25.0	23.5	24.0	19.5	18.5	19.0
13	23.0	21.0	22.0	22.0	20.0	21.0	25.0	24.0	24.5	19.0	17.5	18.0
14	22.5	21.0	21.5	22.5	20.5	21.5	25.0	24.0	24.5	19.0	17.5	18.0
15	20.5	19.5	20.5	22.5	21.0	21.5	24.5	23.5	24.0	18.5	16.5	17.0
16	21.5	18.5	20.0	22.0	21.5	21.5	25.0	23.5	24.0	17.0	16.0	16.5
17	21.5	19.0	20.5	23.5	21.0	22.0	25.0	23.0	23.5	17.0	15.5	16.5
18	20.5	19.0	20.0	23.0	21.5	22.0	23.5	22.0	23.0	17.0	15.5	16.5
19	20.0	19.0	19.0	23.5	21.5	22.5	23.0	21.5	22.5	17.0	15.5	16.5
20	21.5	18.5	20.0	24.5	22.0	23.0	23.0	21.5	22.0	17.0	15.5	16.5
21	21.5	19.0	20.5	24.5	22.0	23.0	22.5	20.5	21.5	17.0	15.5	16.0
22	20.5	19.0	20.0	24.5	22.5	23.5	23.0	20.5	22.0	15.5	14.5	15.0
23	20.0	18.5	19.5	24.5	23.0	24.0	22.5	21.0	21.5	16.0	14.5	15.0
24	20.5	18.5	19.5	24.0	23.0	23.5	21.0	20.0	20.5	17.5	15.5	16.5
25	20.0	18.0	18.5	23.5	22.0	23.0	21.5	19.5	20.5	17.0	15.5	16.5
26	18.0	17.0	17.5	23.0	21.5	22.5	22.0	19.5	21.0	17.0	16.0	16.5
27	18.0	16.5	17.0	23.0	22.0	22.5	22.0	20.0	21.0	---	---	---
28	19.0	16.5	17.5	22.0	21.0	21.0	22.0	20.0	21.5	---	---	---
29	18.0	17.5	18.0	23.0	20.0	21.5	23.0	21.0	22.0	---	---	---
30	18.0	17.5	17.5	23.5	21.0	22.0	22.5	21.5	21.5	---	---	---
31	---	---	---	23.5	21.5	22.5	21.5	21.0	21.5	---	---	---
MONTH	23.0	13.5	18.5	24.5	17.5	22.0	26.0	19.5	23.0	22.0	14.5	18.0
YEAR	26.0	.0	10.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.3	8.0	8.1	10.8	10.6	10.7	12.8	12.6	12.7	13.0	12.9	12.9
2	8.2	7.8	8.0	10.9	10.6	10.8	12.9	12.8	12.9	13.1	12.9	13.0
3	8.1	7.7	7.9	10.7	10.3	10.5	13.0	12.9	12.9	12.9	12.8	12.9
4	8.0	7.7	7.8	10.5	10.3	10.3	13.1	13.0	13.1	13.0	12.7	12.8
5	8.0	7.8	7.9	11.0	10.6	10.8	13.1	12.9	13.1	12.8	12.6	12.7
6	8.2	7.9	8.0	11.0	10.5	10.8	12.9	12.8	12.9	12.7	12.6	12.6
7	8.5	7.9	8.1	10.8	10.5	10.6	12.9	12.4	12.7	12.7	12.5	12.6
8	8.6	8.1	8.3	10.9	10.5	10.7	13.3	12.9	13.2	12.8	12.6	12.7
9	8.7	8.3	8.4	10.6	10.2	10.4	13.3	13.1	13.3	12.9	12.7	12.8
10	9.0	8.6	8.7	10.3	10.1	10.2	13.4	13.2	13.3	13.0	12.9	13.0
11	9.1	8.8	9.0	10.4	10.1	10.3	13.5	13.2	13.4	13.0	12.8	12.9
12	9.1	8.8	8.9	10.2	9.8	9.9	13.5	13.1	13.4	13.0	12.9	12.9
13	9.0	8.7	8.8	11.1	10.1	10.7	13.3	12.7	13.0	13.1	13.0	13.0
14	8.7	8.5	8.6	11.3	11.1	11.2	13.6	13.3	13.4	13.0	12.8	12.9
15	9.3	8.6	8.8	11.3	11.2	11.3	13.9	13.3	13.7	12.9	12.8	12.8
16	9.4	9.2	9.3	11.7	11.3	11.4	---	---	---	12.9	12.8	12.9
17	9.4	9.1	9.2	11.7	11.1	11.4	---	---	---	12.9	12.8	12.9
18	9.6	9.0	9.3	11.8	11.3	11.6	---	---	---	12.9	12.8	12.9
19	10.1	9.5	9.7	12.3	11.8	12.1	---	---	---	12.9	12.7	12.8
20	10.2	9.8	10.0	12.4	12.1	12.2	14.0	13.6	13.8	12.9	12.8	12.8
21	10.4	10.1	10.2	12.3	12.0	12.1	13.9	13.6	13.8	12.9	12.8	12.9
22	10.5	10.2	10.3	12.0	11.6	11.8	13.9	13.5	13.7	12.9	12.8	12.9
23	10.5	10.2	10.3	11.9	11.6	11.8	13.5	13.0	13.2	12.9	12.8	12.9
24	10.3	9.9	10.1	11.9	11.7	11.8	13.2	12.9	13.1	12.9	12.7	12.9
25	10.4	10.0	10.2	12.0	11.7	11.9	12.9	12.8	12.9	12.7	12.5	12.6
26	10.4	9.1	10.1	12.7	11.6	12.3	13.0	12.7	12.9	12.9	12.5	12.7
27	10.3	10.0	10.1	13.0	12.7	12.8	12.8	12.7	12.8	12.9	12.7	12.9
28	10.3	10.2	10.2	13.2	12.9	13.0	12.9	12.7	12.8	12.8	12.7	12.8
29	10.8	10.3	10.4	13.1	12.9	13.0	12.8	12.3	12.5	12.9	12.8	12.9
30	11.0	10.8	10.9	13.0	12.7	12.9	12.8	12.5	12.7	12.9	12.7	12.8
31	11.0	10.7	10.9	---	---	---	12.9	12.9	12.9	12.9	12.7	12.8
MONTH	11.0	7.7	9.2	13.2	9.8	11.4	14.0	12.3	13.1	13.1	12.5	12.8

BEST COPY AVAILABLE

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.8	12.7	12.8	---	---	---	13.0	12.8	12.9	11.7	11.3	11.6
2	12.9	12.8	12.9	---	---	---	13.0	12.7	12.8	11.5	11.1	11.3
3	12.9	12.8	12.9	---	---	---	12.9	12.6	12.8	11.6	11.1	11.3
4	12.8	12.5	12.7	---	---	---	12.9	12.6	12.7	11.4	11.1	11.3
5	12.7	12.5	12.6	---	---	---	13.0	12.8	12.9	11.7	11.3	11.6
6	12.7	12.4	12.6	---	---	---	13.2	12.8	13.0	12.1	11.6	11.8
7	12.7	12.3	12.6	---	---	---	13.4	13.2	13.3	12.0	11.5	11.7
8	12.7	12.4	12.6	---	---	---	13.9	13.3	13.7	11.7	11.4	11.6
9	12.7	12.5	12.6	---	---	---	14.1	13.9	14.0	11.4	11.0	11.3
10	12.9	12.7	12.9	---	---	---	14.0	13.7	13.8	11.2	10.8	11.0
11	12.9	12.8	12.9	13.3	13.2	13.3	13.8	13.4	13.6	11.3	10.7	11.0
12	12.9	12.7	12.8	13.4	13.2	13.3	13.5	13.3	13.4	11.0	10.7	10.8
13	13.0	12.8	12.9	13.5	13.3	13.4	13.4	13.2	13.3	10.8	10.4	10.7
14	13.0	12.9	13.0	13.4	13.1	13.3	13.7	13.1	13.3	10.4	10.2	10.3
15	13.0	12.8	12.9	13.1	13.0	13.1	13.4	13.2	13.3	10.7	10.1	10.4
16	13.2	12.8	13.0	13.2	13.0	13.1	13.1	13.0	13.1	10.5	10.2	10.4
17	13.5	13.0	13.3	13.2	12.9	13.1	13.1	12.9	13.0	10.5	10.2	10.4
18	13.6	13.5	13.6	13.4	13.2	13.3	13.2	13.0	13.1	10.7	10.3	10.5
19	13.6	13.5	13.6	13.3	13.1	13.3	13.4	13.2	13.3	10.5	10.0	10.3
20	13.5	13.3	13.4	13.3	13.0	13.1	13.5	13.1	13.4	10.1	9.7	9.9
21	13.3	13.0	13.2	13.1	13.0	13.0	13.1	13.0	13.1	9.7	9.0	9.5
22	13.4	13.2	13.3	13.0	12.8	12.9	13.4	13.1	13.3	9.2	8.8	9.0
23	13.3	13.0	13.2	12.8	12.6	12.7	13.1	12.6	13.0	9.4	8.4	8.7
24	13.2	13.0	13.1	13.0	12.5	12.8	12.8	12.4	12.7	9.5	9.1	9.3
25	13.2	13.0	13.1	13.0	12.5	12.8	12.8	12.4	12.6	9.4	9.0	9.2
26	13.4	13.1	13.2	12.9	12.6	12.8	13.1	12.7	12.9	9.2	8.6	9.0
27	---	---	---	13.0	12.6	12.8	13.0	12.7	12.9	9.0	8.4	8.7
28	---	---	---	13.1	12.8	12.9	12.9	12.5	12.7	8.7	8.4	8.5
29	---	---	---	13.1	12.8	13.0	12.6	12.1	12.5	9.1	8.3	8.7
30	---	---	---	13.1	13.0	13.0	12.2	11.7	12.0	9.1	8.8	9.0
31	---	---	---	13.1	12.9	13.0	---	---	---	9.2	8.7	8.9
MONTH	13.6	12.3	13.0	13.5	12.5	13.1	14.1	11.7	13.1	12.1	8.3	10.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.2	9.1	9.8	8.3	7.9	8.2	7.3	6.9	7.1	7.4	6.7	7.0
2	10.8	10.3	10.5	7.9	7.5	7.7	7.3	6.8	7.1	7.8	7.2	7.5
3	11.0	10.8	11.0	8.0	7.2	7.7	7.1	6.7	6.9	8.0	7.3	7.4
4	11.0	10.7	10.9	7.7	7.3	7.5	6.9	6.5	6.7	8.1	7.5	7.7
5	10.7	10.4	10.6	7.4	7.1	7.2	6.8	6.4	6.6	8.3	7.8	8.0
6	10.5	10.1	10.3	7.0	6.7	6.9	6.5	6.1	6.3	8.6	8.2	8.4
7	10.1	9.6	9.9	7.3	6.7	7.0	6.4	6.0	6.2	8.9	8.5	8.6
8	9.6	9.1	9.4	7.5	7.0	7.3	6.4	6.0	6.2	9.1	8.6	8.8
9	9.1	8.7	9.0	8.1	7.5	7.8	6.4	6.1	6.3	9.1	8.6	8.8
10	8.7	7.8	8.4	8.4	8.1	8.2	6.4	6.1	6.2	9.1	8.5	8.8
11	7.9	7.6	7.8	8.4	8.3	8.3	6.4	6.0	6.2	9.4	8.5	8.8
12	8.1	7.8	7.9	8.3	8.1	8.2	6.5	6.2	6.3	9.4	8.4	8.7
13	7.8	7.4	7.6	8.1	7.9	8.0	6.5	6.2	6.4	9.1	8.6	8.9
14	7.4	6.6	7.2	8.0	7.8	7.9	6.6	6.2	6.4	9.0	8.6	8.8
15	8.0	7.2	7.7	7.8	7.4	7.6	6.6	6.3	6.4	9.5	8.6	8.8
16	8.1	7.4	7.8	7.4	7.0	7.2	6.6	6.2	6.4	9.3	8.7	9.0
17	8.2	7.2	7.7	7.3	6.9	7.1	6.9	6.2	6.6	9.4	9.0	9.2
18	8.0	7.6	7.8	7.0	6.8	6.9	7.0	6.5	6.8	9.5	9.1	9.3
19	7.9	7.8	7.8	7.0	6.4	6.7	7.1	6.7	6.9	9.3	9.0	9.2
20	8.0	7.5	7.7	7.1	6.6	6.9	7.1	6.7	6.9	9.3	8.9	9.1
21	7.9	7.4	7.6	7.0	6.5	6.7	7.6	7.0	7.3	9.5	8.9	9.2
22	8.6	7.3	8.1	6.8	6.3	6.5	7.5	7.1	7.3	9.7	9.1	9.4
23	8.7	8.0	8.4	6.6	6.2	6.3	7.3	7.0	7.1	9.5	9.2	9.3
24	8.6	8.1	8.4	7.0	5.9	6.3	7.4	7.0	7.2	9.3	8.9	9.1
25	8.5	8.1	8.3	7.2	6.5	6.9	7.7	7.3	7.5	9.2	8.9	9.0
26	8.8	8.3	8.5	7.1	6.8	7.0	7.6	7.3	7.4	9.7	8.7	8.9
27	8.8	8.4	8.6	7.2	6.7	7.0	7.5	7.1	7.3	---	---	---
28	8.7	8.3	8.5	7.3	6.8	7.1	7.4	7.1	7.2	---	---	---
29	8.7	8.4	8.5	7.5	7.0	7.2	7.3	6.9	7.2	---	---	---
30	8.6	8.3	8.4	7.3	7.0	7.1	7.1	6.8	6.9	---	---	---
31	---	---	---	7.3	6.9	7.1	6.9	6.7	6.8	---	---	---
MONTH	11.0	6.6	8.7	8.4	5.9	7.3	7.7	6.0	6.8	9.7	6.7	8.7
YEAR	14.1	5.9	10.5									

BEST COPY AVAILABLE

01021200 DENNYS RIVER AT DENNYSVILLE, ME

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, Hydrologic Unit 01050002, on right bank 100 ft upstream from railroad bridge, 0.9 mi upstream from Cathance Stream, and 1 mi west of Dennysville.

DRAINAGE AREA.--92.9 mi².

PERIOD OF RECORD.--Discharge: October 1955 to current year.
Water temperatures: October 1958 to September 1972.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 54.78 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow slightly regulated by dam at outlet of Meddybemps Lake, 14 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--29 years, 199 ft³/s (29.09 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,930 ft³/s Apr. 29, 1973, gage height, 9.35 ft (from rating curve extended above 1,400 ft³/s); minimum, 8.4 ft³/s Oct. 1, 1957, gage height, 0.28 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 17	1100	856	4.07	Apr. 06	1700	* 2430	7.18
Nov. 26	0200	1270	5.04	Apr. 18	--	1000	--
Dec. 14	1800	1270	5.05	June 02	1900	1100	4.67

Minimum discharge, 45 ft³/s Sept. 29,30, gage height, 0.82 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	64	249	155	165	421	222	315	592	337	120	87
2	68	63	196	145	160	261	241	280	1000	258	117	85
3	68	63	164	140	157	232	296	250	944	214	115	82
4	66	67	147	140	293	246	357	320	638	190	112	81
5	90	84	126	135	628	335	415	570	424	176	111	80
6	107	172	119	140	706	350	1690	492	323	188	109	78
7	97	150	251	155	631	340	1910	392	279	196	109	77
8	86	111	314	160	545	310	1280	328	253	274	106	75
9	79	82	215	150	451	275	762	378	233	490	105	74
10	74	69	192	145	369	250	477	355	216	414	103	74
11	70	143	179	140	320	235	374	293	205	295	103	73
12	69	225	130	135	322	230	379	269	226	247	100	74
13	98	168	225	135	347	225	351	450	210	225	100	74
14	167	121	1050	130	336	220	399	418	201	195	101	80
15	151	94	1060	130	364	320	454	402	201	178	102	79
16	118	147	726	125	534	390	500	342	197	167	108	72
17	99	759	440	125	547	445	800	292	187	161	102	62
18	89	480	278	125	462	447	870	261	178	155	98	56
19	82	263	218	125	377	419	810	237	244	213	94	53
20	81	175	184	120	364	411	720	221	280	198	93	51
21	75	180	170	120	402	427	610	217	226	169	93	51
22	71	491	155	120	353	504	550	215	194	154	90	50
23	70	338	145	120	313	603	490	202	176	145	91	49
24	75	220	140	120	339	593	450	197	166	140	93	48
25	84	585	135	210	588	531	625	188	162	135	93	48
26	81	1130	130	240	633	461	640	180	293	130	90	48
27	76	727	130	230	540	407	600	176	600	128	88	48
28	73	367	130	205	412	285	520	171	453	132	88	47
29	70	243	200	190	406	249	445	191	440	131	87	46
30	68	288	425	180	---	234	370	368	481	126	86	45
31	65	---	260	170	---	216	---	359	---	123	87	---
TOTAL	2635	8069	8478	4660	12064	10872	18607	9329	10222	6284	3094	1947
MEAN	85.0	269	273	150	416	351	620	301	341	203	99.8	64.9
MAX	167	1130	1060	240	706	603	1910	570	1000	490	120	87
MIN	65	63	119	120	157	216	222	171	162	123	86	45
CFSM	.91	2.90	2.94	1.61	4.48	3.78	6.67	3.24	3.67	2.19	1.07	.70
IN.	1.06	3.23	3.39	1.87	4.83	4.35	7.45	3.74	4.09	2.52	1.24	.78

CAL YR 1983 TOTAL 85747 MEAN 235 MAX 1560 MIN 54 CFSM 2.53 IN. 34.34
WTR YR 1984 TOTAL 96261 MEAN 263 MAX 1910 MIN 45 CFSM 2.83 IN. 38.55

BEST COPY AVAILABLE

01022260 PLEASANT RIVER NEAR EPPING, ME

LOCATION.--Lat. 44°41'52", long. 67°47'16", Washington County, Hydrologic Unit 01050002, on right bank at Saco Falls, 100 ft upstream from East Base Road bridge in Columbia, 0.6 mi upstream from the junction of North Branch Pleasant River, and 1.6 mi northeast of the village of Epping.

DRAINAGE AREA.--60.6 mi^2.

PERIOD OF RECORD.--July 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 127.02 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1100 ft^3/s Apr. 7, 1984, gage height, 10.34 ft; minimum, 17 ft^3/s Sept. 10, 1980, gage height 4.99 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 440 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1200	746	9.11	Apr. 07	1130	* 1100	10.34
Dec. 15	2000	908	9.68	Apr. 19	0800	466	8.01
Mar. 24	1800	536	8.27	June 03	0415	852	9.48

Minimum discharge 20 ft^3/s Sept. 11, gage height 5.06 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	36	416	255	93	281	201	229	364	292	56	35
2	35	34	374	210	91	269	213	218	666	249	53	34
3	37	34	333	175	150	238	234	208	837	206	51	32
4	37	38	284	155	240	205	260	208	731	157	48	31
5	40	57	236	145	350	180	285	245	590	122	46	31
6	61	92	199	140	400	160	244	295	490	113	45	30
7	65	103	212	145	370	150	1030	323	412	121	44	29
8	54	89	225	155	325	140	848	300	352	145	43	28
9	47	74	233	160	275	135	657	273	298	175	44	23
10	42	64	220	130	225	130	551	253	235	209	45	26
11	40	85	215	120	190	130	476	242	200	307	46	23
12	39	149	210	115	180	125	417	221	175	310	46	26
13	52	161	235	110	180	125	381	226	155	268	45	27
14	117	145	363	105	180	125	352	240	140	212	47	32
15	124	114	764	100	210	150	325	254	125	167	50	45
16	101	116	832	99	290	180	313	245	110	145	53	51
17	81	244	674	97	350	224	345	225	100	135	50	46
18	64	295	562	95	390	240	400	202	94	123	45	42
19	56	365	463	94	380	237	462	184	100	139	41	36
20	50	359	330	93	360	237	441	169	121	146	40	32
21	46	316	270	92	335	257	400	167	118	130	40	31
22	43	316	230	91	325	323	363	172	103	108	38	30
23	40	323	210	90	335	422	327	165	93	92	38	28
24	40	368	195	90	339	503	293	150	87	84	39	28
25	47	410	180	110	346	487	287	135	82	76	40	28
26	50	495	170	125	328	405	291	122	124	69	39	27
27	46	711	160	115	320	326	309	116	230	64	36	28
28	43	641	150	110	320	271	302	107	287	67	35	27
29	40	545	180	100	299	238	276	121	345	72	34	26
30	38	477	300	98	---	219	245	196	338	65	34	26
31	37	---	325	95	---	204	---	248	---	59	35	---
TOTAL	1648	7256	9750	3814	8176	7316	11528	6459	8102	4627	1346	938
MEAN	53.2	242	315	123	282	236	384	208	270	149	43.4	31.3
MAX	124	711	832	255	400	503	1030	323	837	310	56	51
MIN	35	34	150	90	91	125	201	107	82	59	34	23
CFSM	.88	3.99	5.20	2.03	4.65	3.89	6.34	3.43	4.46	2.46	.72	.52
IN.	1.01	4.45	5.99	2.34	5.02	4.49	7.08	3.96	4.97	2.84	.83	.58

CAL YR 1983 TOTAL 63579 MEAN 174 MAX 866 MIN 26 CFSM 2.87 IN. 39.03
WTR YR 1984 TOTAL 70960 MEAN 194 MAX 1030 MIN 23 CFSM 3.20 IN. 43.56

BEST COPY AVAILABLE

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME
(National stream-quality accounting network station)

LOCATION.--Lat 44°36'29", long 67°56'10", Washington County, Hydrologic Unit 01050002, on left bank 800 ft upstream from railroad bridge at Cherryfield and 0.7 mi downstream from West Branch of Narraguagus River.

DRAINAGE AREA.--227 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1948 to current year.

REVISED RECORDS.--WSP 1301: 1948(M). WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 44.2 ft, National Geodetic Vertical Datum of 1929. Prior to July 1, 1948, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are fair.

AVERAGE DISCHARGE.--36 years, 509 ft³/s, (30.45 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s May 28, 1961, gage height, 17.40 ft; minimum, 3.0 ft³/s Sept. 2, 4, 5, 1978, gage height, 6.41 ft, caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 17	0900	2410	12.00	Apr. 06	2100	4510	13.92
Nov. 22	0800	2190	11.77	Apr. 17	2300	2190	11.77
Nov. 26	1200	3860	13.38	Jun. 02	1800	3180	12.77
Dec. 15	0100	* 5020	14.29				

Minimum discharge, 50 ft³/s Sept. 28, gage height, 7.26 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	92	1320	821	325	1200	689	743	2430	647	157	81
2	98	89	1090	626	320	960	797	714	3110	507	153	76
3	93	87	909	541	315	792	954	647	3020	406	144	69
4	88	106	763	488	500	655	1090	761	2470	338	134	67
5	103	160	654	465	1550	556	1250	1300	1800	292	126	66
6	144	297	594	451	1880	530	3770	1190	1260	304	121	64
7	155	307	1140	486	1660	520	4420	968	962	326	114	61
8	140	259	1400	523	1360	458	4040	790	785	628	113	58
9	131	223	1190	446	1070	370	2900	868	659	1360	111	56
10	112	194	992	386	800	335	2040	800	556	1320	112	54
11	98	371	774	366	656	330	1510	672	479	1060	115	55
12	92	580	615	350	647	325	1320	607	424	796	112	59
13	137	478	1260	340	703	320	1210	941	381	606	111	61
14	304	380	4150	335	666	319	1160	1040	349	476	113	83
15	300	315	4870	330	782	527	1160	971	342	418	114	114
16	249	617	3960	325	1380	654	1250	845	323	394	114	132
17	202	2200	2720	320	1810	708	2020	739	296	372	107	124
18	174	1560	1920	320	1840	701	2140	637	273	358	99	107
19	152	1110	1430	315	1430	668	1970	555	318	457	92	93
20	133	771	996	310	1230	834	1620	517	389	427	90	84
21	120	913	859	310	1220	899	1340	550	346	362	95	78
22	109	2080	748	305	1020	1160	1160	561	295	312	95	73
23	102	1660	690	300	869	1660	1010	502	257	273	91	68
24	106	1270	630	300	858	1530	928	460	230	247	99	66
25	121	2180	590	390	1340	1340	1110	407	219	218	94	64
26	122	3770	550	500	1660	1150	1200	371	534	196	88	64
27	117	3470	525	450	1690	991	1110	359	1130	184	83	64
28	110	2600	502	410	1340	839	967	347	1050	189	80	59
29	107	1840	1100	375	1230	791	843	426	850	189	77	59
30	101	1580	1240	355	---	681	748	1210	777	177	76	57
31	96	---	1020	335	---	629	---	1200	---	166	79	---
TOTAL	4221	31559	41201	12574	32151	23432	47726	22698	26314	14005	3309	2216
MEAN	136	1052	1329	406	1109	756	1591	732	877	452	107	73.9
MAX	304	3770	4870	821	1880	1660	4420	1300	3110	1360	157	132
MIN	88	87	502	300	315	319	689	347	219	166	76	54
CFSM	.60	4.63	5.85	1.79	4.89	3.33	7.01	3.22	3.86	1.99	.47	.33
IN.	.69	5.17	6.75	2.06	5.27	3.84	7.82	3.72	4.31	2.30	.54	.36

CAL YR 1983 TOTAL 244169 MEAN 669 MAX 4870 MIN 50 CFSM 2.95 IN. 40.01
WTR YR 1984 TOTAL 261406 MEAN 714 MAX 4870 MIN 54 CFSM 3.15 IN. 42.84

BEST COPY AVAILABLE

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1978 to September 1981.
WATER TEMPERATURES: January 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 49 micromhos Aug. 29, 1978, Aug. 19, 24, Sept. 7, 1980; minimum, 17 micromhos Feb. 18,19, 1981.
WATER TEMPERATURES: Maximum, 26.5°C July 21-23, Aug. 18, 19, 1978; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 09...	1445	220	45	6.4	16.5	7.0	1.6	773	11.4	93	K16	59
DEC 13...	1100	904	28	5.8	10.0	0.0	2.0	770	13.9	94	K16	50
MAR 07...	1300	443	24	6.5	5.0	0.5	2.2	765	14.2	98	K3	K5
APR 25...	1500	1160	20	6.2	10.0	5.5	1.3	760	12.2	97	K7	K4
JUN 11...	1900	464	22	6.3	22.5	24.0	1.5	765	7.6	90	K10	77
AUG 08...	1900	114	32	6.8	25.0	24.0	1.8	768	8.2	97	48	K12

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 09...	10	2.7	0.8	3.6	0.7	10	3.6	4.1	0.2	6.9	22	29
DEC 13...	7	1.8	0.5	2.5	0.4	4.0	3.2	3.5	<0.1	5.4	39	20
MAR 07...	6	1.5	0.4	2.1	0.4	5.0	3.3	2.8	<0.1	5.4	26	19
APR 25...	5	1.3	0.4	1.9	0.4	4.0	1.8	2.5	0.1	4.1	28	15
JUN 11...	6	1.8	0.4	2.0	0.4	5.0	2.1	2.6	0.1	3.9	41	17
AUG 08...	9	2.4	0.6	2.9	0.5	10	2.2	2.9	0.1	5.2	32	23

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BEST COPY AVAILABLE

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
NOV 09...	0.1	0.24	0.31	1.60	0.01	<0.01	<0.01	200	<1	8.00
DEC 13...	<0.1	<0.01	0.01	0.5	0.02	0.01	<0.01	--	<1	25.00
MAR 07...	<0.1	0.07	0.09	0.6	<0.01	<0.01	<0.01	90	<1	8.00
APR 25...	<0.1	0.02	0.03	0.5	<0.01	0.01	<0.01	100	<1	7.00
JUN 11...	<0.1	0.21	0.27	0.4	0.01	<0.01	<0.01	--	--	--
AUG 08...	<0.1	0.02	0.03	0.2	0.03	<0.01	<0.01	--	--	--

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)
NOV 09...	<0.50	<1	<1	<3.00	2	280	3	40	13	<1.0
DEC 13...	<0.50	<1	--	<3.00	<1	160	1	<4.00	18	<0.1
MAR 07...	<0.50	<1	<1	<3.00	<1	100	1	<4.00	11	<0.1
APR 25...	<1.00	<1	<1	<3.00	<1	120	1	<4.00	9	<0.1
JUN 11...	--	--	--	--	--	--	--	--	--	--
AUG 08...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 09...	<10	2	<1	<1	10	<6.0	4.00	4	2.4	100
DEC 13...	<10	1	<1	--	9.00	<6.0	6.00	6	15	100
MAR 07...	<10	1	<1	<1	7.00	<6.0	10	14	17	70
APR 25...	<10	1	<1	<1	7.00	<6.0	6.00	12	38	58
JUN 11...	--	--	--	--	--	--	--	13	16	33
AUG 08...	--	--	--	--	--	--	--	15	4.6	--

BEST COPY AVAILABLE

01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, Hydrologic Unit 01020005, on left bank 700 ft downstream from Mattaseunk Dam and powerhouse, 1.3 mi upstream from Mattaseunk Brook, and 4.5 mi upstream from Mattawamkeag.

DRAINAGE AREA.--3,356 mi², including 249 mi² drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--June 1940 to current year.

REVISED RECORDS.--WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 191.72 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. No gage-height record May 30 to July 11. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--44 years, 5,870 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft³/s Apr. 29, 1973, gage height, 16.89 ft, (backwater from Mattawamkeag River); minimum daily, 1,430 ft³/s Aug. 17, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47,500 ft³/s June 2, gage height, 14.73 ft, from recorded range in stage (backwater from Mattawamkeag River); minimum daily, 3,200 ft³/s Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4800	3830	8400	6450	6350	6320	6920	16300	40000	11800	5920	5400
2	4200	3750	6760	6200	6000	6170	6890	16600	42500	9500	5780	4000
3	4670	4050	6590	6280	6450	6340	6880	15600	40500	7100	6020	3200
4	4700	4000	5610	6630	6200	5850	7060	12000	32000	6960	6050	4000
5	5350	4130	5680	6570	6320	5790	7120	13400	24000	9600	6330	5250
6	5100	4470	6130	6870	6750	5870	9090	13800	25500	8700	6150	5350
7	5780	5220	7060	6480	6250	6150	11500	12800	20500	8300	6000	4900
8	5250	4570	9610	6450	5900	5510	12500	11800	16500	8200	5400	5000
9	5350	4700	8460	6230	5500	5100	12100	11500	15200	7800	5630	4950
10	5250	4670	9400	6190	5700	5250	11500	11800	14000	7000	6400	4950
11	4800	4830	8030	6260	5600	5300	11100	9210	10000	6900	5480	5200
12	5100	5720	7220	5700	6020	5200	11100	8740	5600	6750	6400	4750
13	4950	6560	7820	5750	5990	5050	10600	13300	6600	6880	5780	5000
14	5180	5780	16100	6100	5970	4950	11000	11800	5900	6400	5620	5100
15	5350	5900	21400	6160	6170	4850	11800	11800	7100	5950	5620	4900
16	4830	5350	18500	5970	6150	5700	12700	11500	7900	6150	5850	4850
17	5050	5620	15400	6080	6110	5680	14900	10400	7300	6450	6050	5000
18	4900	6600	11700	6020	6470	6000	18700	10700	6800	6450	6000	4950
19	4400	6160	9780	5960	5890	6110	16700	9960	9600	6120	5550	4850
20	4670	6100	8400	5700	6270	6400	16100	9340	9500	6230	5320	5050
21	4670	6160	7400	5600	6000	5890	15700	8150	8100	6480	5280	4800
22	4570	6460	7660	5650	5780	6560	16300	7580	7800	6230	5680	4950
23	4300	7320	7490	5550	6160	6980	15800	7250	7100	6600	5380	5050
24	4300	6770	6170	5600	5920	7040	16200	8260	7100	6230	5320	4850
25	4200	9920	6140	5850	6160	7470	17000	7860	6800	6020	5400	4750
26	3830	20700	7600	5750	6080	7160	21000	6940	11700	6100	5380	4900
27	4050	16600	7340	5550	6620	7010	20200	7410	13200	5650	5580	4900
28	3600	12200	7360	6050	6650	6560	19300	7260	13000	6120	4920	4900
29	3900	9710	7540	6500	6500	6710	17300	6890	12000	6250	5270	4400
30	3950	9330	7250	6570	---	7240	17600	8900	12000	6230	5100	4750
31	3860	---	6690	6100	---	6960	--	24000	---	6100	5050	---
TOTAL	144910	207180	276690	189020	177930	189170	401360	342850	445800	216590	175760	144900
MEAN	4675	6906	8925	6097	6136	6102	13380	11060	14860	6987	5670	4830
MAX	5780	20700	21400	6870	6750	7470	21000	24000	42500	11800	6400	5400
MIN	3600	3750	5610	5550	5500	4850	6880	6890	5600	5650	4920	3200

CAL YR 1983 TOTAL 2738520 MEAN 7503 MAX 43000 MIN 2500
WTR YR 1984 TOTAL 2912160 MEAN 7957 MAX 42500 MIN 3200

BEST COPY AVAILABLE

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, Hydrologic Unit 01020003, on right bank at Gordon Lower Falls, 1.0 mi upstream from Mattakeunk Stream, 3.7 mi upstream from Mattawamkeag, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--1,418 mi².

PERIOD OF RECORD.--October 1934 to current year.

REVISED RECORDS.--WSP 1501: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 230 ft, from topographic map.

REMARKS.--Records good except those for winter period and period of no gage-height record, Feb. 13 to Apr. 4, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--50 years, 2,548 ft³/s, (24.40 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,200 ft³/s Mar. 23, 1936, gage height, 15.34 ft; minimum, 38 ft³/s Sept. 19, 1952.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,000 ft³/s June 4, gage height, 11.45 ft; minimum, 85 ft³/s Sept 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	544	433	13700	2940	1050	5200	3300	11300	11000	6030	802	374
2	484	413	11500	2810	1030	4400	3400	10300	14300	5020	727	403
3	426	402	9340	2600	1020	3750	3500	9420	17500	4030	649	426
4	396	457	7330	2340	1000	3200	3250	8450	18900	3270	594	400
5	417	657	5730	2060	1300	2750	3870	7670	18400	2860	542	366
6	663	1040	4870	1840	1680	2450	5030	7420	16800	3480	494	330
7	1200	1550	4900	1700	1870	2200	7210	7400	14500	3890	450	295
8	1530	1940	5860	1650	2210	2000	9380	7160	11800	4130	422	260
9	1540	2020	5960	1580	2410	1850	10200	6620	9190	4670	395	229
10	1390	1900	7040	1500	2540	1700	10100	6120	7020	5070	377	209
11	1210	1850	6530	1450	2410	1600	9630	5690	5290	4920	361	193
12	1060	2410	5740	1390	1900	1500	9100	5430	4100	4340	338	203
13	995	3340	5690	1370	1700	1420	8610	7040	3400	3960	316	205
14	1070	3850	9370	1330	1650	1400	8420	9220	2900	3580	304	220
15	1220	3780	15000	1300	1650	1370	8740	10400	2880	3100	305	241
16	1300	3470	17300	1280	1750	1360	9420	10700	3160	2740	350	227
17	1250	3530	17500	1250	2350	1350	10700	10200	3100	2470	441	204
18	1150	4190	16200	1230	2700	1370	12600	9010	2760	2210	537	170
19	1060	4610	14400	1210	2750	1450	13900	7670	2680	1990	560	146
20	960	4450	10600	1200	2680	1600	14400	6380	3520	1800	532	128
21	874	4130	7690	1180	2600	2300	14500	5270	4320	1630	497	118
22	795	4420	6040	1160	2620	3500	14000	4470	4380	1510	443	113
23	730	5110	5410	1150	2700	5000	13300	3920	3880	1390	405	109
24	679	5470	4750	1140	2950	6700	12500	3530	3200	1270	386	104
25	632	6790	4140	1120	3750	7300	12400	3190	2630	1230	399	99
26	593	13300	3140	1110	4750	7400	12900	2920	2570	1210	456	104
27	562	17200	2780	1100	5500	6500	13300	2800	4090	1120	534	104
28	535	17500	3000	1100	5600	5400	13300	2700	5960	1070	510	99
29	515	16900	3430	1090	5500	4400	12900	2700	6870	1030	445	94
30	497	15600	3060	1080	---	3850	12100	4880	6770	961	397	90
31	453	---	3050	1070	---	3500	---	8000	---	874	371	---
TOTAL	26750	152722	241050	46330	73620	99970	295990	207980	217870	86855	14339	6263
MEAN	863	5091	7776	1495	2539	3225	9866	6709	7262	2802	463	209
MAX	1550	17500	17500	2940	5600	7400	14500	11300	18900	6030	802	426
MIN	396	402	2780	1070	1000	1350	3250	2700	2570	874	304	90
CFSM	.61	3.59	5.48	1.05	1.79	2.27	6.96	4.73	5.12	1.98	.33	.15
IN.	.70	4.01	6.32	1.22	1.93	2.62	7.77	5.46	5.72	2.28	.38	.16

CAL YR 1983 TOTAL 1340407 MEAN 3672 MAX 18000 MIN 215 CFSM 2.59 IN. 35.16
WTR YR 1984 TOTAL 1469739 MEAN 4016 MAX 18900 MIN 90 CFSM 2.83 IN. 38.56

BEST COPY AVAILABLE

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

LOCATION.--Lat 45°10'31", long 69°18'55", Piscataquis County, Hydrologic Unit 01020004, on left bank 30 ft downstream from Lows Bridge, 1.0 mi upstream from Black Stream, and 4.7 mi upstream from Dover-Foxcroft.

DRAINAGE AREA.--298 mi^2.

PERIOD OF RECORD.--August 1902 to current year.

REVISED RECORDS.--WSP 279: 1902. WSP 1201: 1903-17, 1918-30(M), 1934-35. WSP 1301: 1909(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 358.47 ft National Geodetic Vertical Datum of 1929. Prior to July 20, 1930, nonrecording gage at same site and datum. July 20, 1930 to Oct. 1, 1981, at datum 0.37 ft lower.

REMARKS.--Records good except those for winter period, which are fair. Low flow may be regulated by operation of mills above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--82 years, 608 ft^3/s, (27.71 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft^3/s Nov. 4, 1966, gage height, 17.89 ft; minimum, 5 ft^3/s Aug. 6, 1905, Nov. 22, 1908.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s and maximums (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 26	0300	9050	10.46	Apr. 25	1800	4730	7.35
Dec. 14	1700	8890	10.35	June 01	0200	* 12700	12.65
Apr. 06	2100	9350	10.65	June 26	1200	6300	8.56
Apr. 17	1100	5660	8.08				

Minimum discharge, 14 ft^3/s Sept. 27, gage height, 1.46 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	81	1310	450	185	375	744	1830	10500	1030	90	32
2	48	82	1020	415	185	350	852	1520	6690	780	81	31
3	46	89	865	390	185	325	1010	1230	5570	601	75	30
4	44	98	668	370	200	310	1200	1390	3090	496	72	28
5	42	500	637	350	250	295	1480	2680	2110	685	69	25
6	187	2500	619	330	320	280	6550	1850	1550	1530	66	25
7	244	1250	2540	310	280	265	7850	1360	1490	1150	64	25
8	181	900	2760	300	250	255	5850	1090	1650	1090	66	24
9	139	650	1680	285	230	240	3010	1100	1370	868	67	21
10	107	500	1350	275	220	225	2490	1010	977	711	66	20
11	91	1000	970	265	210	220	1850	846	759	564	63	20
12	87	1730	829	260	200	205	1870	1380	591	658	60	27
13	142	1050	1580	250	195	195	2160	2970	490	679	59	29
14	340	700	7280	240	190	190	2640	2400	440	521	63	31
15	294	570	6010	235	190	185	3300	2460	486	445	71	29
16	224	540	3660	225	300	190	3190	1730	403	410	155	27
17	177	2100	2330	220	790	200	5280	1310	343	374	143	25
18	146	1250	1550	215	580	215	4690	1040	303	318	98	22
19	124	950	1210	210	450	250	4000	885	562	299	76	20
20	107	800	835	210	390	300	3470	781	687	270	63	19
21	94	760	730	205	355	1250	3210	698	484	237	57	19
22	87	2250	690	200	335	2200	2450	614	401	213	63	20
23	84	1620	645	200	320	3250	2310	556	335	188	55	21
24	85	1360	605	200	300	2500	2730	900	278	171	51	22
25	90	3690	570	195	375	2050	4090	822	613	145	51	21
26	91	7280	530	195	500	1550	3770	672	5470	126	48	20
27	87	3780	500	195	450	1180	2890	762	4210	122	45	15
28	85	2100	470	190	425	1010	2550	632	2360	141	41	16
29	83	1620	475	190	390	921	2230	1200	1500	146	37	19
30	82	1660	590	190	---	806	1990	6300	1170	125	34	19
31	80	---	500	190	---	723	---	8050	---	105	34	---
TOTAL	3768	42960	46006	7955	9250	22510	92506	52068	56882	15198	2083	702
MEAN	122	1432	1484	257	319	726	3084	1680	1896	490	67.2	23.4
MAX	340	7280	7280	450	790	3250	7850	8050	10500	1530	155	32
MIN	42	81	470	190	185	185	744	556	278	105	34	15
CFSM	.41	4.81	4.98	.86	1.07	2.44	10.3	5.64	6.36	1.64	.23	.08
IN.	.47	5.36	5.74	.99	1.15	2.81	11.55	6.50	7.10	1.90	.26	.09

CAL YR 1983 TOTAL 326997 MEAN 896 MAX 14900 MIN 17 CFSM 3.01 IN. 40.82
WTR YR 1984 TOTAL 351890 MEAN 961 MAX 10500 MIN 15 CFSM 3.22 IN. 43.93

BEST COPY AVAILABLE

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, Hydrologic Unit 01020005, on left bank 30 ft downstream from highway bridge, 1,000 ft downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.--6,671 mi², including 249 mi² drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--Discharge: November 1901 to current year.
Water-quality records: Water years 1966 to 1978.
Specific conductance: July 1973 to September 1978.
Water temperatures: July 1966 to September 1978.

REVISED RECORDS.--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft National Geodetic Vertical Datum of 1929. Prior to Dec. 11, 1912, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--Supplemental water-stage recorder graph furnished by Bangor Hydroelectric Company.

AVERAGE DISCHARGE.--82 years (water years 1903-84), 12,030 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft³/s May 1, 1923, gage height, 25.15 ft; minimum, 1,630 ft³/s Oct. 29, 1905, gage height, 1.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 112,000 ft³/s June 3, gage height, 20.08 ft; minimum daily discharge, 3,310 ft³/s Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6100	4720	35300	14000	8800	16800	15300	38100	78700	27400	7810	5820
2	5720	4870	29500	13500	7700	16000	15200	38300	104000	24700	7170	5800
3	5060	4710	25300	12700	7100	15800	15900	33100	110000	20000	7550	4270
4	5460	5070	21000	11500	7300	13000	17200	30700	99100	15900	6560	3310
5	6010	5390	18300	10500	7400	10500	18800	30100	78800	15100	7030	4590
6	6780	7440	16400	10200	7900	10100	25500	32700	62700	19600	7470	5810
7	7340	9170	20400	10300	9500	10000	42900	30600	53000	20400	7110	5880
8	8540	8870	29300	9600	10200	9800	48400	27300	43100	19600	7170	5060
9	8080	8290	27500	9800	9400	9300	43700	25800	39000	20300	6390	5640
10	8140	8280	26800	9300	9300	9500	38800	25400	34300	18600	6490	5440
11	7260	8190	24000	6100	9100	10000	34900	23500	29400	16600	7170	5530
12	7130	10200	20400	7300	8850	9500	32700	20400	21600	16100	6440	5870
13	7010	13500	21900	8100	8600	9100	33200	32800	14100	15500	7450	5070
14	7840	13600	44700	8400	8700	8700	33400	38400	13700	14700	6560	5430
15	8650	12100	69300	9400	9500	7400	35500	38600	12200	13300	6120	5650
16	8580	11700	63200	9800	10700	8600	37600	37300	13300	11800	6810	5330
17	7880	13200	53000	9100	12300	8450	41900	31900	13600	11900	7660	5520
18	7660	17900	43800	8300	13300	8400	50600	29700	12500	10900	7740	5600
19	7230	17600	37400	8400	14200	9500	51400	26000	12100	10700	7320	5250
20	6600	15700	30500	8500	13800	10000	49300	23500	18200	9670	6520	5210
21	6690	14700	24300	8000	13500	10300	47700	20400	17400	10200	6370	4750
22	6440	19800	13200	7600	13400	11500	45600	17700	15400	9320	6200	5220
23	6170	22800	10500	7700	13000	13500	42500	15800	14100	9450	6290	5420
24	5890	22700	19000	7800	12700	16200	42400	15700	12500	9010	6000	5430
25	5640	27500	16200	7900	13500	18000	43600	16900	12000	8390	5880	5140
26	5430	64100	13400	8400	15000	19000	49100	14800	18800	8260	6060	5070
27	5040	65800	8000	8700	16600	18500	49800	14300	37200	7970	6110	5400
28	5220	50100	9700	8000	17300	17800	45900	14700	37200	7940	6290	6080
29	4740	42300	11700	8050	17500	17000	44000	13800	33300	7840	5880	6240
30	4830	39100	13000	8200	---	16000	40400	28000	28900	7990	5790	5770
31	5070	---	14200	8500	---	15500	---	50300	---	7540	5670	---
TOTAL	204230	568400	811200	283150	325650	383750	1133200	836600	1090200	426680	207030	160600
MEAN	6588	18950	26170	9134	11230	12380	37770	26990	36340	13760	6678	5353
MAX	8650	65800	69300	14000	17500	19000	51400	50300	110000	27400	7810	6240
MIN	4740	4710	8000	6100	7100	7400	15200	13800	12000	7540	5670	3310

CAL YR 1983 TOTAL 6018800 MEAN 16490 MAX 113000 MIN 4160
WTR YR 1984 TOTAL 6430690 MEAN 17570 MAX 110000 MIN 3310

BEST COPY AVAILABLE

01036390 PENOBSCOT RIVER AT EDDINGTON, ME
(National stream-quality accounting network station)

LOCATION.--Lat 44°49'41", long 68°41'48", Penobscot County, Hydrologic Unit 01020005, on left bank 0.4 mi downstream from Veazie Dam at Eddington, on Monument Drive, 750 ft north of intersection with State Highway 178.

DRAINAGE AREA.--7,764 mi^2, including 249 mi^2 drained by Chamberlain Lake through Telos Canal.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1979 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7.20 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River Basin).

AVERAGE DISCHARGE.--5 years, 16,434 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft^3/s June 3, 1984, gage height, 20.60 ft; minimum daily discharge, 3,500 ft^3/s Mar. 14, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 136,000 ft^3/s June 4, gage height, 20.60 ft; maximum gage height, 24.84 ft Dec. 24 (ice jam); minimum daily discharge, 3,920 ft^3/s Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6680	6130	46800	15200	9700	18200	16400	43900	71100	30200	8000	6140
2	6920	5980	42100	14700	8100	17200	16600	41800	102000	26800	8300	6330
3	7230	6620	38600	14000	7900	16500	19500	38700	126000	23500	7950	5950
4	7230	6770	31200	12500	7800	15000	23000	34000	132000	18900	8000	4760
5	6880	7630	26500	11500	9300	12000	22500	33000	112000	16000	7600	3920
6	8180	8480	23800	11400	10000	11000	30700	34700	87200	18100	7700	6120
7	8430	9950	24200	11500	11300	10900	49600	34200	70200	22400	7700	6350
8	8970	11200	32100	10500	11400	10400	58700	30800	57900	21500	7510	5930
9	9850	11600	35600	10800	10300	10200	55700	28500	49300	21600	7270	5420
10	9850	11500	36100	10300	10400	10500	50100	27200	43000	20800	6890	6100
11	9750	11400	31500	6600	9900	11200	44500	26200	36600	19100	6980	5940
12	8300	11400	29400	8400	9700	10100	40300	23700	29200	18100	7440	6530
13	8130	13700	29100	8800	9600	9700	39700	31000	20600	16800	6910	6380
14	8220	15500	48800	9600	9500	9600	40000	43200	17000	16300	7820	5930
15	9010	15300	76400	10300	10800	8400	41200	43400	14900	15100	7060	6080
16	9520	14600	81600	10800	12700	9300	43700	44100	15100	13600	7130	6090
17	9570	15100	72900	10000	14000	9400	46500	39200	15700	13200	7360	6110
18	9570	18400	63600	9300	15000	9700	54800	34900	14700	13000	8170	6350
19	8700	21100	58200	9400	16000	10500	58600	31600	13600	12000	7960	6210
20	8220	19800	44500	9500	15200	10900	57500	27700	16300	11300	7980	6090
21	7150	18100	29000	8900	15000	12000	56000	24200	19100	11000	7010	6200
22	7430	21100	16000	8400	15100	13800	54000	21000	17000	11200	6690	5360
23	7030	26400	12000	8500	14500	17000	49800	18600	15400	10300	6650	5920
24	6990	27500	21000	8700	14000	19000	48300	18200	14300	10300	6970	6270
25	6920	32500	16500	8900	14800	20600	48300	18000	13800	9810	6540	6040
26	6990	30600	12500	9600	16700	20500	51900	17100	14400	8580	6480	6810
27	7190	27400	8600	9100	18200	19800	55100	15900	32100	8100	6670	6770
28	6710	68400	11500	8600	18700	18500	52300	16100	40200	8000	6630	6480
29	6550	57600	13000	8800	19000	17700	49600	16000	37500	8250	6750	6460
30	6880	51500	14500	9100	---	16800	45700	24400	32400	8050	6800	6660
31	5660	---	15700	9300	---	16500	---	49400	---	8300	6260	---
TOTAL	244710	683260	1043300	313000	364600	422900	1320600	930700	1280600	470190	225180	181700
MEAN	7894	22780	33650	10100	12570	13640	44020	30020	42690	15170	7264	6057
MAX	9850	77400	81600	15200	19000	20600	58700	49400	132000	30200	8300	6810
MIN	5660	5980	8600	6600	7800	8400	16400	15900	13600	8000	6260	3920

CAL YR 1983 TOTAL 7352150 MEAN 20140 MAX 127000 MIN 5050
WTR YR 1984 TOTAL 7480740 MEAN 20440 MAX 132000 MIN 3920

BEST COPY AVAILABLE

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1979 to current year.
pH: April 1979 to current year.
WATER TEMPERATURES: April 1979 to current year.
DISSOLVED OXYGEN: April 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1979.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor and flow restrictions from ice jam.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum (water years 1979-80, 82-83), 92 micromhos Mar. 17, 1980; minimum, 25 micromhos Apr. 19, 1983.
pH: Maximum, 9.3 units Sept. 6, 1979; minimum, 5.3 units Sept. 6, 7, 1979.
WATER TEMPERATURES: Maximum, 28.0°C July 30, 1979; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum recorded, 15.0 mg/L Jan. 23, 1983, minimum, 6.5 mg/L July 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 68 micromhos Nov. 2; minimum 26 micromhos June 2, 3.
pH: Maximum, 7.7 units Aug. 29-30; minimum, 6.3 units Nov. 27-29, Dec. 16-19.
WATER TEMPERATURES: Maximum recorded, 26.5°C Aug. 6; minimum, 0.0°C on many days during winter period.
DISSOLVED OXYGEN: Maximum recorded, 15.6 mg/L Feb. 28; minimum recorded, 7.4 mg/L Aug. 17.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 18...	1230	19400	49	6.9	2.0	3.0	2.0	765	14.1	104	K100	97
MAY 30...	1300	24300	41	6.7	15.0	13.5	1.5	779	11.6	109	250	200
JUL 18...	1300	12800	42	7.0	27.0	23.5	1.2	765	8.7	102	300	K19
AUG 28...	1300	6710	63	7.4	25.0	21.5	1.0	772	8.7	97	220	300

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 18...	18	5.3	1.2	2.5	0.6	14	9.1	3.0	<0.1	4.2	43	35
MAY 30...	13	4.0	0.8	2.2	0.5	12	5.9	2.8	0.1	2.8	30	27
JUL 18...	15	4.5	0.8	2.2	0.4	11	4.7	2.9	<0.1	3.2	42	26
AUG 28...	21	6.4	1.1	3.9	0.6	15	7.1	4.7	<0.1	2.6	43	36

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BEST COPY AVAILABLE

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
NOV 18...	0.19	0.25	0.32	0.4	0.03	0.01	<0.01	100	<1	20.00
MAY 30...	0.15	0.36	0.46	2.80	0.02	<0.01	0.01	200	<1	8.00
JUL 18...	<0.1	<0.01	0.01	0.3	0.02	0.02	<0.01	70	1	8.00
AUG 28...	<0.1	<0.01	0.01	--	<0.01	0.03	0.01	50	1	11.00

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 18...	<0.50	<1	<1	<3.00	<1	140	<1	<4.00	14	<1.0
MAY 30...	<0.50	<1	1	<3.00	<1	130	3	<4.00	16	<0.1
JUL 18...	<0.50	<1	<1	<3.00	1	120	2	6.00	5	0.1
AUG 28...	<0.50	<1	<1	<3.00	2	70	2	<4.00	17	0.2

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 18...	<10	<1	<1	<1	30	<6.0	4.00	9	471	77
MAY 30...	<10	1	<1	2	20	<6.0	20	11	722	59
JUL 18...	<10	2	<1	1	30	<6.0	10	7	242	46
AUG 28...	<10	<1	<1	<1	30	<6.0	9.00	21	380	--

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
MAY 30...	<0.7	<0.4	1.5	<0.4	1.3	<0.4	0.03	0.05
JUL 18...	<0.7	<0.4	1.2	<0.4	1.0	<0.4	0.03	0.09

BEST COPY AVAILABLE

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	60	58	58	64	62	63	37	37	37	48	47	47
2	[illegible]	56	57	68	63	65	38	37	37	49	48	49
3	56	56	57	67	65	66	38	38	38	50	49	49
4	58	56	57	66	65	66	39	38	38	50	49	49
5	56	55	55	65	62	63	39	39	39	50	49	49
6	58	54	57	63	57	62	42	41	41	49	48	49
7	55	52	54	55	52	54	---	---	---	50	49	49
8	53	50	52	52	51	51	42	40	41	51	49	50
9	53	51	52	53	52	52	42	40	41	51	51	51
10	54	51	52	53	51	52	40	39	39	53	51	52
11	54	51	52	53	52	52	42	40	41	58	52	55
12	56	52	54	52	51	51	43	42	43	57	54	55
13	57	53	55	51	50	51	43	42	42	55	54	54
14	59	54	56	50	49	49	41	37	40	54	54	54
15	55	52	53	48	47	48	37	33	35	54	54	54
16	52	51	52	48	47	47	33	31	32	54	54	54
17	53	51	51	48	47	48	33	31	32	54	53	54
18	52	51	51	47	45	46	33	33	33	55	54	54
19	54	51	52	46	45	45	35	34	34	55	54	55
20	56	51	53	47	45	46	37	35	36	55	55	55
21	57	56	57	47	46	46	38	37	37	57	55	56
22	58	56	57	46	44	45	40	38	39	58	57	57
23	59	57	58	44	42	43	40	39	40	58	57	57
24	59	56		43	42	42	41	40	41	57	56	57
25	60	56		43	40	42	43	41	42	60	58	59
26	60	57	[illegible]	41	35	38	44	43	43	59	56	57
27	60	58	59	35	32	34	47	44	46	57	50	53
28	61	59	60	33	32	32	49	47	48	51	48	49
29	61	55	60	35	33	34	52	47	49	49	48	48
30	61	59	60	36	35	36	49	48	49	50	48	49
31	63	60	62	---	---	---	49	47	48	50	49	49
MONTH	63	50	56	68	32	49	52	31	40	60	47	53

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	48	47	47	43	43	43	44	43	43	31	31	31
2	48	47	47	44	43	43	44	42	43	32	31	32
3	48	47	48	44	43	44	42	41	42	32	31	31
4	50	47	49	45	44	45	41	40	41	32	31	32
5	48	46	46	46	44	45	40	39	40	33	32	32
6	48	46	47	47	45	46	40	37	39	33	32	32
7	46	45	46	47	46	46	37	32	35	32	31	32
8	50	45	48	47	46	47	35	32	33	32	31	32
9	50	49	50	48	47	47	32	31	32	32	32	32
10	50	50	50	48	48	48	33	31	32	33	32	32
11	50	50	50	49	48	49	34	33	33	33	32	33
12	53	50	51	49	47	48	35	34	34	33	33	33
13	51	51	51	49	48	49	35	35	35	34	33	33
14	51	50	51	50	48	50	35	35	35	33	31	32
15	51	49	50	50	49	49	35	32	34	31	30	31
16	49	49	49	49	48	49	34	32	33	32	31	31
17	49	46	48	49	47	48	32	32	32	32	31	32
18	46	44	45	49	48	48	32	31	31	33	32	32
19	44	44	44	50	48	48	31	30	30	33	33	33
20	44	44	44	49	48	48	30	30	30	34	33	34
21	44	44	44	48	47	48	31	30	30	35	34	35
22	44	44	44	47	44	46	32	29	30	36	35	36
23	45	44	44	46	43	45	32	29	31	37	36	36
24	45	44	45	45	41	43	32	31	31	38	37	37
25	45	43	44	42	41	41	32	31	32	38	37	37
26	44	43	43	42	41	41	31	30	31	38	37	38
27	44	43	43	42	41	41	30	29	30	38	37	38
28	43	42	42	42	41	42	30	29	30	39	38	38
29	43	42	43	43	42	42	31	30	31	39	39	39
30	---	---	---	44	43	43	31	30	31	39	35	38
31	---	---	---	44	43	44	---	---	---	35	32	34
MONTH	53	42	47	50	41	46	44	29	34	39	30	34

BEST COPY AVAILABLE

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	33	28	30	37	36	37	47	45	46	64	59	61
2	28	26	26	38	37	38	49	45	47	65	58	62
3	27	26	27	39	38	39	51	47	48	59	51	55
4	27	27	27	40	39	40	51	48	49	55	50	52
5	28	27	28	41	40	41	52	49	50	65	56	62
6	31	28	30	40	40	40	51	47	49	63	56	58
7	32	31	32	41	40	41	---	---	---	58	56	57
8	33	32	33	42	41	41	---	---	---	58	55	57
9	34	33	34	42	41	42	---	---	---	62	58	60
10	35	34	34	42	41	42	---	---	---	61	57	58
11	36	35	35	42	41	41	56	52	54	62	57	59
12	37	36	36	42	41	41	56	52	54	57	56	57
13	38	37	38	42	41	41	56	50	54	58	55	56
14	40	37	38	42	41	41	53	49	50	59	55	57
15	41	40	40	43	41	42	53	49	52	59	56	58
16	45	41	43	43	42	43	55	51	53	59	58	58
17	44	42	43	44	42	43	55	48	52	61	57	60
18	43	42	43	44	42	43	51	48	50	59	54	57
19	45	43	44	42	41	41	51	48	50	61	57	59
20	44	43	44	43	41	42	49	48	49	61	57	58
21	43	41	42	44	41	42	54	49	52	61	57	59
22	41	40	41	45	42	43	56	52	54	62	58	60
23	42	41	41	44	43	43	57	54	55	60	57	59
24	44	42	43	45	43	44	55	54	54	62	55	58
25	44	43	43	45	44	44	59	51	56	62	57	59
26	44	43	44	47	44	45	61	57	59	60	57	58
27	44	37	40	48	44	45	59	55	57	62	57	59
28	37	34	35	47	44	45	64	56	59	62	60	61
29	36	34	35	48	45	46	65	56	61	61	58	60
30	36	36	36	48	45	46	64	59	61	59	58	59
31	---	---	---	48	45	46	61	57	59	---	---	---
MONTH	45	26	37	48	36	42	65	45	53	65	50	58
YEAR	68	26	46									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	7.0	7.0	7.1	7.1	7.1	6.5	6.5	6.5	6.5	6.5	6.5
2	7.0	6.9	7.0	7.1	7.0	7.1	6.5	6.5	6.5	6.5	6.5	6.5
3	7.0	6.9	6.9	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5
4	7.0	6.9	6.9	7.0	7.0	7.0	6.6	6.6	6.6	6.5	6.5	6.5
5	7.0	6.9	6.9	7.0	7.0	7.0	6.6	6.6	6.6	6.6	6.6	6.6
6	7.0	6.9	6.9	7.0	6.9	7.0	6.6	6.6	6.6	6.6	6.6	6.6
7	7.0	6.9	6.9	7.1	7.0	7.0	---	---	---	6.6	6.6	6.6
8	7.1	7.0	7.0	7.0	7.0	7.0	6.7	6.6	6.7	6.5	6.6	6.6
9	7.2	7.0	7.1	7.0	7.0	7.0	6.7	6.6	6.7	6.6	6.6	6.6
10	7.2	7.0	7.1	7.0	6.9	7.0	6.6	6.6	6.6	6.6	6.6	6.6
11	7.1	7.0	7.1	7.0	7.0	7.0	6.6	6.6	6.6	6.6	6.6	6.6
12	7.1	7.0	7.0	7.0	6.9	7.0	6.6	6.6	6.6	6.6	6.6	6.6
13	7.1	7.0	7.0	6.9	6.9	6.9	6.6	6.6	6.6	6.6	6.6	6.6
14	7.1	7.0	7.1	6.9	6.9	6.9	6.5	6.4	6.5	6.6	6.6	6.6
15	7.1	7.0	7.1	6.9	6.9	6.9	6.4	6.4	6.4	6.6	6.5	6.5
16	7.1	7.0	7.1	6.9	6.8	6.9	6.4	6.3	6.3	6.5	6.5	6.5
17	7.1	7.0	7.0	6.8	6.8	6.8	6.3	6.3	6.3	6.5	6.5	6.5
18	7.1	7.0	7.0	6.8	6.8	6.8	6.3	6.3	6.3	6.5	6.5	6.5
19	7.1	6.9	7.0	6.8	6.7	6.8	6.4	6.3	6.3	6.5	6.5	6.5
20	7.1	7.0	7.0	6.8	6.8	6.8	6.4	6.4	6.4	6.5	6.5	6.5
21	7.0	6.9	7.0	6.8	6.8	6.8	6.4	6.4	6.4	6.5	6.5	6.5
22	7.0	7.0	7.0	6.7	6.7	6.7	6.4	6.4	6.4	6.5	6.5	6.5
23	7.0	7.0	7.0	6.7	6.6	6.6	6.4	6.4	6.4	6.5	6.4	6.5
24	7.1	7.0	7.0	6.6	6.6	6.6	6.4	6.4	6.4	6.5	6.4	6.4
25	7.1	7.0	7.0	6.7	6.5	6.6	6.5	6.4	6.5	6.5	6.4	6.4
26	7.1	7.0	7.0	6.5	6.4	6.4	6.5	6.5	6.5	6.5	6.4	6.5
27	7.0	7.0	7.0	6.4	6.3	6.4	6.5	6.5	6.5	6.5	6.5	6.5
28	7.1	7.0	7.0	6.3	6.3	6.3	6.5	6.5	6.5	6.5	6.5	6.5
29	7.1	7.0	7.0	6.5	6.3	6.4	6.5	6.5	6.5	6.5	6.5	6.5
30	7.1	7.0	7.1	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
31	7.1	7.0	7.1	---	---	---	6.5	6.5	6.5	6.6	6.5	6.6
MONTH	7.2	6.9	7.0	7.1	6.3	6.8	6.7	6.3	6.5	6.6	6.4	6.5

BEST COPY AVAILABLE

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.6	6.6	6.6	6.7	6.7	6.7	6.9	6.9	6.9	6.7	6.6	6.7
2	6.6	6.6	6.6	6.7	6.6	6.7	6.9	6.9	6.9	6.8	6.7	6.7
3	6.6	6.6	6.6	6.7	6.7	6.7	6.9	6.9	6.9	6.8	6.7	6.7
4	6.6	6.6	6.6	6.7	6.7	6.7	6.9	6.9	6.9	6.8	6.7	6.8
5	6.6	6.6	6.6	6.8	6.7	6.7	6.9	6.8	6.9	6.8	6.7	6.7
6	6.6	6.6	6.6	6.8	6.8	6.8	6.8	6.7	6.8	6.8	6.8	6.8
7	6.6	6.6	6.6	6.8	6.8	6.8	6.7	6.6	6.6	6.8	6.8	6.8
8	6.6	6.6	6.6	6.8	6.8	6.8	6.7	6.6	6.6	6.8	6.8	6.8
9	6.6	6.6	6.6	6.9	6.8	6.8	6.7	6.6	6.7	6.8	6.8	6.8
10	6.6	6.6	6.6	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.8	6.8
11	6.6	6.6	6.6	6.9	6.9	6.9	6.8	6.7	6.8	6.9	6.8	6.8
12	6.6	6.6	6.6	6.9	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.8
13	6.6	6.6	6.6	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.7	6.7
14	6.6	6.6	6.6	6.9	6.9	6.9	6.8	6.7	6.8	6.7	6.6	6.7
15	6.6	6.6	6.6	6.9	6.9	6.9	6.8	6.7	6.7	6.6	6.6	6.6
16	6.6	6.5	6.6	6.9	6.9	6.9	6.8	6.7	6.7	6.6	6.6	6.6
17	6.6	6.5	6.6	6.9	6.9	6.9	6.8	6.7	6.7	6.7	6.6	6.6
18	6.6	6.5	6.5	6.9	6.9	6.9	6.8	6.7	6.7	6.7	6.6	6.7
19	6.5	6.5	6.5	6.9	6.9	6.9	6.7	6.7	6.7	6.7	6.7	6.7
20	6.5	6.5	6.5	6.9	6.9	6.9	6.7	6.7	6.7	6.7	6.7	6.7
21	6.6	6.5	6.5	6.9	6.8	6.9	6.8	6.7	6.7	6.7	6.7	6.7
22	6.6	6.5	6.6	6.8	6.8	6.8	6.8	6.7	6.7	6.8	6.7	6.7
23	6.6	6.6	6.6	6.8	6.7	6.8	6.8	6.7	6.8	6.9	6.7	6.8
24	6.6	6.6	6.6	6.8	6.7	6.8	6.8	6.7	6.8	6.9	6.7	6.8
25	6.6	6.6	6.6	6.8	6.7	6.7	6.8	6.8	6.8	6.9	6.8	6.8
26	6.6	6.6	6.6	6.8	6.7	6.8	6.8	6.7	6.8	7.0	6.8	6.9
27	6.7	6.6	6.7	6.8	6.8	6.8	6.7	6.6	6.6	7.0	6.8	6.9
28	6.7	6.6	6.7	6.8	6.8	6.8	6.7	6.6	6.7	6.9	6.8	6.9
29	6.7	6.6	6.7	6.8	6.8	6.8	6.7	6.5	6.6	6.9	6.9	6.9
30	---	---	---	6.8	6.8	6.9	6.6	6.5	6.6	6.9	6.7	6.8
31	---	---	---	6.9	6.9	6.9	---	---	---	6.7	6.5	6.6
MONTH	6.7	6.5	6.6	6.9	6.6	6.8	6.9	6.5	6.8	7.0	6.5	6.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.5	6.4	6.5	6.9	6.7	6.7	7.3	7.1	7.2	7.4	7.3	7.4
2	6.4	6.4	6.4	6.7	6.7	6.7	7.3	7.1	7.2	7.4	7.3	7.4
3	6.4	6.4	6.4	6.8	6.7	6.7	7.3	7.1	7.2	7.3	7.2	7.2
4	6.4	6.4	6.4	6.8	6.7	6.8	7.3	7.1	7.2	7.3	7.2	7.2
5	6.4	6.4	6.4	6.9	6.7	6.8	7.3	7.1	7.2	7.4	7.3	7.3
6	6.4	6.4	6.4	6.9	6.8	6.8	7.3	7.0	7.2	7.4	7.2	7.3
7	6.4	6.4	6.4	6.9	6.8	6.8	---	---	---	7.4	7.3	7.3
8	6.4	6.4	6.4	6.9	6.8	6.8	---	---	---	7.5	7.3	7.4
9	6.5	6.4	6.5	6.8	6.8	6.8	---	---	---	7.5	7.4	7.5
10	6.5	6.5	6.5	6.8	6.8	6.8	---	---	---	7.6	7.4	7.5
11	6.6	6.5	6.5	6.9	6.8	6.8	7.0	6.9	7.0	7.5	7.4	7.4
12	6.7	6.6	6.6	6.8	6.8	6.9	7.0	6.9	6.9	7.4	7.2	7.3
13	6.7	6.6	6.7	6.9	6.8	6.9	7.0	6.8	6.9	7.3	7.2	7.3
14	6.7	6.7	6.7	6.9	6.8	6.8	7.1	6.9	7.0	7.3	7.2	7.3
15	6.9	6.7	6.8	6.9	6.8	6.9	7.0	6.8	6.9	7.3	7.2	7.2
16	6.9	6.8	6.9	6.9	6.8	6.9	7.0	6.8	6.9	7.3	7.2	7.2
17	7.0	6.9	6.9	7.0	6.8	6.9	7.1	6.8	6.9	7.3	7.2	7.2
18	7.0	6.9	7.0	6.9	6.8	7.0	7.1	7.0	7.1	7.3	7.2	7.3
19	7.1	7.0	7.0	7.2	7.0	7.1	7.1	7.0	7.0	7.3	7.2	7.3
20	7.1	7.0	7.0	7.2	7.0	7.1	7.1	7.0	7.0	7.2	7.2	7.3
21	7.0	7.0	7.0	7.2	7.0	7.1	7.0	6.9	7.0	7.4	7.3	7.3
22	7.0	6.9	7.0	7.2	7.0	7.1	7.1	6.9	7.0	7.3	7.3	7.3
23	7.1	6.9	7.0	7.2	7.1	7.1	7.0	7.0	7.0	7.4	7.2	7.3
24	7.2	7.0	7.1	7.2	7.1	7.2	7.1	7.0	7.0	7.3	7.2	7.3
25	7.1	7.0	7.1	7.3	7.1	7.2	7.0	7.0	7.0	7.3	7.2	7.3
26	7.1	7.0	7.1	7.3	7.1	7.2	7.2	7.0	7.1	7.3	7.2	7.2
27	7.0	6.7	6.9	7.2	7.1	7.2	7.1	7.0	7.1	7.3	7.2	7.3
28	6.7	6.7	6.7	7.2	7.1	7.2	7.7	7.0	7.3	7.3	7.2	7.2
29	6.7	6.6	6.7	7.3	7.1	7.2	7.7	7.4	7.5	7.2	7.2	7.2
30	6.7	6.7	6.7	7.3	7.1	7.2	7.7	7.4	7.5	7.3	7.2	7.2
31	---	---	---	7.3	7.1	7.2	7.5	7.3	7.3	---	---	---
MONTH	7.2	6.4	6.7	7.3	6.7	7.0	7.7	6.8	7.1	7.6	7.2	7.3
YEAR	7.7	6.3	6.8									

BEST COPY AVAILABLE

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	16.0	16.0	6.5	6.0	6.5	1.0	1.0	1.0	.5	.5	.5
2	17.0	16.5	16.5	7.0	6.5	6.5	1.0	.5	.5	1.0	.5	.5
3	18.0	17.0	17.5	8.0	7.0	7.5	1.0	.5	.5	1.0	.5	.5
4	18.0	17.0	17.5	8.0	7.5	7.5	.5	.0	.0	1.0	1.0	1.0
5	17.0	15.5	16.5	7.5	6.5	7.0	.0	.0	.0	1.0	1.0	1.0
6	16.0	15.5	16.0	6.5	6.0	6.5	.5	.0	.0	1.0	1.0	1.0
7	15.5	14.5	15.0	6.0	5.5	6.0	---	---	---	1.0	.5	1.0
8	14.5	13.5	14.0	6.0	5.5	6.0	---	---	---	.5	.5	.5
9	14.0	13.5	13.5	7.0	6.0	6.5	.0	.0	.0	.5	.5	.5
10	13.5	12.5	13.0	6.5	6.0	6.5	.0	.0	.0	.5	.5	.5
11	13.0	12.0	12.5	6.5	6.0	6.0	.0	.0	.0	.5	.5	.5
12	13.0	12.0	12.5	6.5	6.0	6.5	.0	.0	.0	.5	.5	.5
13	13.5	12.5	13.0	6.0	4.5	5.5	.5	.0	.0	.5	.5	.5
14	15.0	13.5	14.0	4.5	3.5	4.0	.5	.5	.5	.5	.5	.5
15	14.5	13.5	14.0	3.5	3.0	3.5	1.5	.5	.5	5	.5	.5
16	13.5	12.5	13.0	3.0	3.0	3.0	1.5	1.5	1.5	.5	.5	.5
17	12.0	11.5	12.0	3.5	3.0	3.5	1.5	1.0	1.5	.5	.5	.5
18	12.0	11.0	11.5	3.5	2.5	3.0	1.0	1.0	1.0	.5	.0	.5
19	11.5	11.0	11.5	2.5	1.5	2.0	1.0	1.0	1.0	.5	.5	.5
20	11.0	10.0	10.5	1.5	1.5	1.5	1.0	.5	.5	.5	.0	.5
21	10.0	9.0	9.5	2.0	1.5	1.5	.5	.5	.5	.5	.0	.0
22	9.0	8.0	8.5	2.0	2.0	2.0	1.0	.5	.5	.5	.0	.0
23	8.5	8.0	8.0	2.0	1.5	2.0	1.0	.0	.5	.5	.0	.0
24	8.5	8.0	8.5	2.0	1.5	2.0	.5	.0	.0	.5	.0	.5
25	8.5	8.0	8.5	3.0	2.0	2.5	.5	.0	.5	.5	.5	.5
26	8.5	7.5	8.0	2.5	2.0	2.5	1.0	.5	1.0	.5	.5	.5
27	8.0	7.5	7.5	2.0	1.5	1.5	1.0	1.0	1.0	.5	.0	.0
28	7.5	7.5	7.5	1.5	1.0	1.5	1.0	1.0	1.0	.0	.0	.0
29	7.5	7.0	7.5	1.0	1.0	1.0	1.0	.5	1.0	.0	.0	.0
30	7.0	6.5	6.5	1.5	1.0	1.0	1.0	.5	1.0	.0	.0	.0
31	7.0	6.0	6.5	---	---	---	.5	.5	.5	.0	.0	.0
MONTH	18.0	6.0	12.0	8.0	1.0	4.0	1.5	.0	.5	1.0	.0	.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	.5	.0	.5	10.0	9.5	10.0
2	.0	.0	.0	.0	.0	.0	.5	.0	.5	10.0	9.0	9.5
3	.0	.0	.0	.0	.0	.0	1.0	.0	.5	9.0	8.5	9.0
4	.0	.0	.0	.0	.0	.0	2.0	1.0	1.5	9.0	7.5	8.5
5	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0	7.5	7.0	7.5
6	.0	.0	.0	.0	.0	.0	3.0	2.5	2.5	8.5	7.0	7.5
7	.0	.0	.0	.0	.0	.0	2.5	2.0	2.0	9.0	7.5	8.5
8	.0	.0	.0	.0	.0	.0	2.0	1.0	1.5	9.0	8.5	9.0
9	.0	.0	.0	.0	.0	.0	1.0	.5	1.0	10.0	9.0	9.5
10	.0	.0	.0	.0	.0	.0	1.0	.5	1.0	10.5	9.5	10.0
11	.0	.0	.0	.0	.0	.0	1.5	1.0	1.5	11.0	9.5	10.5
12	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0	11.0	10.5	10.5
13	.0	.0	.0	.0	.0	.0	3.0	2.5	2.5	11.0	10.5	10.5
14	.0	.0	.0	.0	.0	.0	4.0	2.5	3.5	11.0	10.5	10.5
15	.0	.0	.0	.0	.0	.0	4.0	3.5	4.0	10.5	10.0	10.0
16	.0	.0	.0	.5	.0	.0	3.5	3.5	3.5	10.5	10.0	10.0
17	.0	.0	.0	.5	.0	.0	3.5	3.0	3.5	10.5	9.5	10.0
18	.0	.0	.0	.0	.0	.0	3.0	3.0	3.0	11.5	10.0	10.5
19	.0	.0	.0	.0	.0	.0	3.5	3.0	3.0	12.0	10.5	11.5
20	.0	.0	.0	.0	.0	.0	4.0	3.0	3.5	13.5	11.5	12.5
21	.0	.0	.0	.5	.0	.0	4.5	3.5	4.0	14.5	13.0	13.5
22	.0	.0	.0	.5	.0	.5	4.0	3.5	4.0	16.0	14.0	15.0
23	.0	.0	.0	.0	.0	.0	5.0	4.0	4.5	17.0	15.5	16.5
24	.0	.0	.0	.0	.0	.0	5.5	5.0	5.0	18.0	17.0	17.5
25	.5	.0	.0	.0	.0	.0	5.5	5.0	5.5	17.5	17.0	17.0
26	.0	.0	.0	.0	.0	.0	5.5	5.0	5.0	18.0	16.5	17.0
27	.0	.0	.0	.0	.0	.0	6.0	5.0	5.5	18.5	18.0	18.0
28	.0	.0	.0	.5	.0	.0	7.5	6.0	6.5	18.0	16.5	17.5
29	.0	.0	.0	.0	.0	.0	8.5	7.0	8.0	16.5	14.5	15.5
30	---	---	---	.0	.0	.0	9.5	8.0	9.0	14.0	13.5	13.5
31	---	---	---	.5	.0	.5	---	---	---	13.5	12.5	12.5
MONTH	.5	.0	.0	.5	.0	.0	9.5	.0	3.5	18.5	7.0	12.0

BEST COPY AVAILABLE

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.5	11.5	11.5	20.0	18.0	19.0	23.5	23.0	23.0	22.0	21.5	22.0
2	12.0	11.5	11.5	21.5	19.5	20.5	23.5	22.0	23.0	21.5	20.5	21.0
3	12.0	11.0	11.5	22.5	21.5	22.0	24.5	22.5	23.5	21.0	20.0	20.5
4	12.5	12.0	12.5	23.5	22.5	23.0	25.0	23.5	24.0	20.5	20.0	20.0
5	14.0	12.5	13.0	23.0	22.5	23.0	26.0	24.0	25.0	20.5	20.0	20.0
6	14.5	14.0	14.0	23.0	22.5	22.5	26.5	24.5	25.5	20.5	19.5	19.5
7	16.0	14.5	15.5	22.5	22.0	22.5	---	---	---	19.5	18.5	19.0
8	17.5	16.0	16.5	22.0	21.0	21.5	---	---	---	19.0	18.0	18.5
9	19.5	17.5	18.5	21.0	20.5	20.5	---	---	---	19.5	18.5	19.0
10	21.0	19.0	20.0	21.0	20.0	20.5	---	---	---	20.0	18.5	19.0
11	22.0	20.5	21.0	21.0	20.5	21.0	24.5	23.5	24.0	20.0	19.5	19.5
12	22.0	21.0	21.5	21.5	20.5	21.0	25.0	24.0	24.5	20.0	19.5	19.5
13	22.5	21.0	22.0	22.0	20.5	21.5	25.5	24.5	25.0	19.5	18.5	19.0
14	22.0	20.5	21.5	22.5	21.5	22.0	25.5	24.5	25.0	18.5	18.0	18.5
15	20.5	19.0	20.0	22.5	22.0	22.0	25.0	24.5	25.0	18.5	17.5	17.5
16	20.0	18.5	19.0	22.5	21.5	22.0	25.0	24.0	24.5	17.5	16.5	17.0
17	20.5	19.0	19.5	23.5	22.0	22.5	25.0	24.5	24.5	17.0	16.0	16.5
18	20.0	19.0	19.5	23.5	22.5	23.0	24.0	23.0	23.5	17.0	15.5	16.5
19	19.5	18.5	19.0	23.5	22.0	22.5	23.5	22.0	22.5	17.0	16.0	16.5
20	20.5	18.5	19.5	24.0	22.0	23.0	22.5	21.5	22.0	17.0	16.0	16.5
21	20.5	19.5	20.0	24.5	22.5	23.5	22.0	20.5	21.5	17.0	16.5	16.5
22	20.0	19.5	20.0	25.0	23.0	24.0	22.5	20.5	21.5	16.5	15.5	16.0
23	20.5	19.5	20.0	24.5	23.5	24.0	22.0	21.5	21.5	16.5	15.0	15.5
24	20.0	18.5	19.5	24.5	23.5	24.0	22.0	21.0	21.5	17.0	16.0	16.5
25	18.5	17.5	18.0	23.5	22.5	23.0	21.5	20.5	21.0	18.0	16.5	17.0
26	17.0	16.5	17.0	23.0	22.0	22.5	21.5	20.0	21.0	17.5	17.0	17.5
27	17.0	16.5	16.5	22.5	21.5	22.0	22.0	20.5	21.5	16.5	15.5	16.0
28	17.0	16.0	16.5	21.5	21.0	21.0	22.5	21.5	22.0	15.5	15.0	15.0
29	17.0	17.0	17.0	22.0	20.0	21.0	23.0	21.5	22.0	15.0	14.5	14.5
30	18.0	17.0	17.5	23.0	21.0	22.0	23.0	22.0	22.5	14.5	13.5	14.0
31	---	---	---	24.0	22.0	23.0	22.5	22.0	22.5	---	---	---
MONTH	22.5	11.0	17.5	25.0	18.0	22.0	26.5	20.0	23.0	22.0	13.5	18.0
YEAR	26.5	.0	9.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.6	9.9	10.2	12.6	12.2	12.4	14.5	14.5	14.5	---	---	---
2	10.3	9.8	10.0	12.5	12.1	12.3	14.6	14.4	14.5	---	---	---
3	9.9	9.6	9.7	12.9	11.8	12.0	14.4	14.2	14.3	---	---	---
4	9.6	9.3	9.4	12.4	11.7	11.8	14.6	14.4	14.5	---	---	---
5	10.2	9.5	9.7	12.3	11.7	11.8	14.4	14.3	14.4	---	---	---
6	9.9	9.6	9.8	12.2	11.7	11.9	14.4	13.9	14.2	---	---	---
7	10.6	9.8	10.1	13.2	12.2	12.7	---	---	---	---	---	---
8	11.2	10.4	10.7	13.7	12.8	13.0	---	---	---	---	---	---
9	11.0	10.7	10.8	12.9	12.6	12.7	15.1	14.9	15.0	---	---	---
10	11.5	10.8	11.1	12.9	12.6	12.7	15.1	14.8	15.0	---	---	---
11	11.7	11.0	11.3	12.6	12.2	12.4	15.4	15.0	15.2	---	---	---
12	11.5	10.8	11.1	12.4	12.1	12.2	15.3	14.7	15.0	---	---	---
13	11.0	10.5	10.8	13.8	12.4	13.1	14.8	14.4	14.6	---	---	---
14	10.7	10.2	10.4	14.1	13.6	14.0	15.0	14.4	14.7	---	---	---
15	11.0	10.2	10.5	13.4	14.1	14.2	14.9	14.6	14.8	---	---	---
16	11.9	10.6	11.1	14.3	13.6	14.0	15.0	14.5	14.7	---	---	---
17	11.8	11.3	11.5	14.1	13.6	13.7	15.2	14.9	15.1	15.0	14.6	14.8
18	11.7	11.3	11.5	---	---	---	---	---	---	15.0	14.6	14.8
19	11.9	11.3	11.5	---	---	---	---	---	---	14.7	14.4	14.5
20	12.0	11.3	11.6	---	---	---	---	---	---	14.6	14.4	14.5
21	12.0	11.2	11.6	---	---	---	---	---	---	14.9	14.4	14.5
22	11.8	11.4	11.7	---	---	---	---	---	---	14.6	14.3	14.5
23	12.1	11.7	11.8	---	---	---	14.9	14.5	14.6	14.5	14.3	14.4
24	12.6	11.6	11.9	---	---	---	14.6	13.9	14.1	14.7	14.0	14.3
25	12.2	11.6	11.8	---	---	---	14.6	13.8	14.2	14.1	13.7	13.9
26	12.4	11.7	11.8	---	---	---	15.2	14.6	14.9	14.2	13.8	14.0
27	12.1	11.6	11.8	---	---	---	15.2	14.7	14.8	14.3	13.8	14.1
28	12.1	11.7	11.8	---	---	---	---	---	---	14.0	13.7	13.8
29	12.0	11.7	11.9	---	---	---	---	---	---	14.1	13.9	14.1
30	12.6	11.9	12.2	14.7	14.5	14.6	---	---	---	14.2	14.1	14.1
31	12.5	12.1	12.3	---	---	---	---	---	---	14.2	14.0	14.1
MONTH	12.6	9.3	11.1	14.7	11.7	12.9	15.4	13.8	14.7	15.0	13.7	14.3

BEST COPY AVAILABLE

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.3	14.2	14.3	15.0	14.8	14.9	---	---	---	12.6	12.2	12.4
2	14.4	14.3	14.3	15.3	14.9	15.1	---	---	---	12.9	12.3	12.6
3	14.4	14.3	14.3	15.4	14.6	14.9	---	---	---	13.3	12.6	12.9
4	14.4	14.1	14.2	15.0	14.5	14.8	---	---	---	12.9	12.7	12.8
5	14.3	14.2	14.2	15.1	14.4	14.8	---	---	---	---	---	---
6	14.5	14.2	14.3	14.6	14.3	14.4	---	---	---	---	---	---
7	14.7	14.5	14.5	14.7	14.4	14.5	---	---	---	---	---	---
8	15.2	14.6	14.8	---	---	---	---	---	---	---	---	---
9	15.5	15.0	15.3	---	---	---	---	---	---	12.5	12.0	12.2
10	15.5	15.0	15.3	---	---	---	---	---	---	12.2	11.9	12.0
11	15.0	14.6	14.8	---	---	---	---	---	---	---	---	---
12	15.0	14.6	14.8	---	---	---	---	---	---	12.0	11.8	11.8
13	15.2	14.9	15.0	---	---	---	---	---	---	---	---	---
14	15.1	14.9	15.1	---	---	---	---	---	---	12.3	12.0	12.1
15	15.1	14.7	15.0	---	---	---	---	---	---	---	---	---
16	15.3	14.8	15.1	---	---	---	---	---	---	---	---	---
17	15.5	15.3	15.3	---	---	---	---	---	---	---	---	---
18	15.4	15.3	15.3	---	---	---	---	---	---	---	---	---
19	15.5	15.4	15.4	---	---	---	---	---	---	12.2	11.4	11.8
20	15.3	15.0	15.1	---	---	---	---	---	---	11.5	10.9	11.3
21	15.3	15.0	15.2	---	---	---	---	---	---	11.1	10.6	10.8
22	15.3	14.9	15.2	---	---	---	---	---	---	10.8	10.2	10.6
23	15.1	14.9	15.0	---	---	---	13.9	12.0	13.5	10.3	9.7	10.1
24	14.9	14.7	14.8	---	---	---	13.7	13.5	13.6	9.7	9.6	9.7
25	14.8	14.6	14.7	---	---	---	13.7	13.5	13.6	10.1	9.8	9.9
26	15.1	14.5	14.8	---	---	---	13.9	13.6	13.8	10.2	9.6	9.9
27	15.4	14.9	15.2	---	---	---	13.9	13.3	13.7	10.0	9.6	9.7
28	15.6	15.2	15.5	---	---	---	---	---	---	10.0	9.7	9.9
29	15.1	14.9	15.0	---	---	---	---	---	---	10.5	10.0	10.2
30	---	---	---	---	---	---	13.0	12.4	12.8	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	15.6	14.1	14.9	15.4	14.3	14.8	13.9	12.0	13.5	13.3	9.6	11.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	10.9	10.3	10.6	8.5	8.3	8.4	8.6	8.4	8.4
2	---	---	---	10.3	9.8	10.1	8.7	8.3	8.5	8.8	8.0	8.4
3	---	---	---	9.9	9.5	9.8	8.6	8.1	8.4	8.9	8.6	8.8
4	---	---	---	9.5	9.1	9.3	8.5	8.0	8.3	9.0	8.7	8.8
5	---	---	---	9.2	9.1	9.1	8.3	7.9	8.1	9.0	8.7	8.8
6	---	---	---	9.4	9.2	9.3	8.2	7.8	8.0	9.1	8.8	9.0
7	11.2	10.9	11.1	9.7	9.4	9.6	---	---	---	9.4	9.0	9.2
8	11.0	10.5	10.8	9.8	9.6	9.7	---	---	---	9.6	9.3	9.4
9	10.7	10.3	10.5	10.1	9.8	10.0	---	---	---	9.5	9.3	9.4
10	10.5	10.1	10.3	10.1	9.8	10.0	---	---	---	9.4	9.1	9.3
11	10.4	9.8	10.0	9.9	9.6	9.8	8.0	7.7	7.8	9.2	9.0	9.1
12	10.0	9.5	9.8	9.6	9.1	9.6	7.9	7.6	7.8	9.3	9.0	9.1
13	9.6	9.0	9.3	9.6	9.3	9.5	7.7	7.5	7.6	9.4	9.1	9.2
14	9.7	9.1	9.3	9.5	9.2	9.4	8.1	7.7	7.9	9.2	9.1	9.2
15	10.0	9.6	9.8	9.3	9.2	9.2	7.9	7.5	7.7	9.4	9.2	9.3
16	10.5	9.9	10.1	9.2	9.0	9.1	7.8	7.5	7.6	9.7	9.4	9.5
17	10.1	9.9	10.0	9.0	8.7	8.9	7.9	7.4	7.7	9.9	9.6	9.8
18	10.0	9.8	9.9	8.8	8.4	8.6	8.3	7.9	8.1	10.0	9.7	9.8
19	10.0	9.8	9.9	8.6	8.4	8.5	8.4	8.1	8.3	9.8	9.6	9.7
20	10.2	9.9	10.1	8.6	8.2	8.4	8.8	8.3	8.5	---	---	---
21	10.2	10.0	10.1	8.5	8.2	8.3	8.9	8.6	8.8	---	---	---
22	10.1	10.0	10.1	8.4	8.0	8.2	8.9	8.5	8.7	9.4	9.1	9.3
23	10.1	10.0	10.1	8.2	7.9	8.1	8.6	8.5	8.5	9.6	9.3	9.4
24	10.3	10.0	10.1	8.1	7.9	8.0	8.8	8.5	8.6	9.5	9.3	9.4
25	10.5	10.2	10.3	8.4	8.1	8.3	8.9	8.7	8.8	9.4	9.1	9.3
26	10.8	10.4	10.5	8.9	8.3	8.7	9.0	8.7	8.8	9.3	8.9	9.1
27	11.6	11.0	11.4	8.8	8.6	8.7	8.9	8.5	8.7	9.7	9.3	9.4
28	11.7	11.4	11.5	9.0	8.7	8.9	8.6	8.4	8.5	9.7	9.4	9.6
29	11.5	11.2	11.3	9.2	8.7	9.0	8.6	8.3	8.5	10.1	9.5	9.9
30	11.2	10.8	11.0	9.0	8.5	8.7	8.5	8.3	8.4	10.1	9.9	10.1
31	---	---	---	8.7	8.3	8.5	8.4	8.3	8.3	---	---	---
MONTH	11.7	9.0	10.3	10.9	7.9	9.1	9.0	7.4	8.3	10.1	8.0	9.3
PERIOD	15.6	7.4	11.3									

BEST COPY AVAILABLE

Reservoirs in Penobscot River Basin

01027000 CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND in West Branch Penobscot River basin are controlled by Ripogenus Dam, in T. 3, R. 11, Piscataquis County, Maine, 36 mi upstream from Millinocket and 42 mi northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000,000,000 ft³. Records furnished by Great Northern Paper Co.

01027000 AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 3 mi upstream from Millinocket, Maine, used for power; usable capacity of reservoir, 15,000,000,000 ft³. Records furnished by Great Northern Paper Co.

01028500 CHAMBERLAIN AND TELOS LAKES AND ROUND POND in East Branch Penobscot River basin are controlled by dams in outlets of Chamberlain and Telos Lakes, although regulation is at Telos Dam, in T. 6, R. 11, Piscataquis County, Maine. Telos Dam rebuilt during 1941, used for power; usable capacity, 5,050,000,000 ft³ between gage height 2.0 ft and 11.0 ft. Records furnished by Bangor Hydroelectric Co.

01029000 SECOND AND GRAND LAKES in East Branch Penobscot River basin are controlled by dam rebuilt in 1942 at outlet of Grand Lake, in T. 6, R. 8, Penobscot County, Maine, used for power; usable capacity, 1,785,000,000 ft³ between elevations 643.0 ft and 655.0 ft. Records furnished by Bangor Hydroelectric Co.

01032500 SEBEC LAKE on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity, 2,511,000,000 ft³ between elevations 316.1 ft and 325.1 ft. Records furnished by Bangor Hydroelectric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHESUNCOOK, RIPOGENUS, CARIBOU, AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES AND MOOSE POND*	CHAMBERLAIN, TELOS, SECOND, AND GRAND LAKES AND ROUND POND	SEBEC LAKE
SEPT. 30, 1983	35109	3036	903
OCT. 31	29444	1723	441
NOV. 30	35388	4367	2013
DEC. 31	41893	5470	1896
JAN. 31, 1984	34175	3437	1093
FEB. 29	27261	2087	1749
MAR. 31	20597	2066	1148
APR. 30	44374	3943	1984
MAY 31	60062	6245	2306
JUNE 30	59516	6283	2189
JULY 31	55465	6163	1896
AUG. 31	47974	4128	1720
SEPT. 30	40124	1854	1611

* Includes monthend contents of following additional reservoirs in West Branch Penobscot River basin, used for power, total capacity approximately 12,000,000,000 ft³; Penobscot, Seboomook, Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnahunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Dole and Poland Ponds.

BEST COPY AVAILABLE

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, Hydrologic Unit 01050003, on left bank 50 ft upstream from highway bridge on State Route 126 at North Whitefield, at mouth of Finn Brook, and 0.3 mi east of North Whitefield village.

DRAINAGE AREA.--148 mi².

PERIOD OF RECORD.--Discharge: October 1938 to current year.
Specific conductance: July 1974 to September 1976.
Water temperatures: October 1957 to September 1971, July 1974 to September 1976.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 101.05 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Some regulation at low flow by sawmill at North Whitefield. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--46 years, 253 ft³/s (23.69 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,420 ft³/s Dec. 18, 1973, gage height, 12.52 ft (from floodmarks); minimum, 5.0 ft³/s Oct. 24, 1941, gage height, 1.70 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 26	0200	2460	7.28	Mar. 22	2200	1100	5.04
Dec. 08	--	1200	--	Apr. 06	1700	2960	8.09
Dec. 15	--	* 3600	--	June 01	0600	3260	8.52
Feb. 26	1600	1250	5.32				

Minimum discharge, 11 ft³/s Oct. 10-12, gage height, 1.74 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	1050	359	135	848	552	401	3140	206	51	23
2	14	21	860	325	135	694	573	366	2660	186	49	21
3	14	18	700	295	130	595	609	334	2350	165	46	20
4	13	26	580	267	299	501	641	436	1900	146	45	19
5	14	98	450	244	386	431	803	546	1530	137	44	18
6	16	170	460	230	340	394	2680	442	1230	162	42	17
7	16	104	800	229	305	359	2530	403	1020	167	40	17
8	14	81	1100	223	285	318	2300	373	1190	231	41	16
9	12	69	950	200	265	280	1880	417	1040	209	40	16
10	11	63	800	184	250	251	1520	380	850	201	40	15
11	11	177	650	175	241	223	1270	343	707	225	36	16
12	11	215	590	170	241	201	1120	446	583	180	34	19
13	42	175	750	160	263	182	1010	815	500	167	34	25
14	74	127	2500	155	258	180	915	697	429	146	32	31
15	44	104	3250	150	525	195	825	782	370	132	35	32
16	32	314	2600	150	944	210	876	669	305	121	35	31
17	27	556	1900	145	819	349	1010	596	257	111	34	28
18	24	314	1500	140	800	361	910	527	223	104	30	24
19	22	250	1200	135	746	398	936	466	206	105	27	20
20	21	222	890	135	770	560	881	427	243	96	42	18
21	19	378	727	130	756	591	787	383	241	95	46	16
22	17	650	579	130	640	880	674	342	213	131	40	16
23	17	499	510	130	566	1020	590	304	192	90	36	16
24	21	479	432	126	580	951	578	278	176	80	34	17
25	25	1600	386	186	716	930	678	247	224	71	35	15
26	26	2220	334	209	1140	896	610	223	341	65	32	16
27	23	1830	292	179	991	824	552	242	383	62	29	15
28	21	1640	260	165	848	744	509	220	280	69	27	13
29	20	1470	550	153	905	672	468	506	227	65	25	12
30	18	1320	463	145	---	576	430	1490	220	59	25	12
31	18	---	399	140	---	525	---	1940	---	54	24	---
TOTAL	672	15208	28502	5764	15279	16139	29717	16041	23230	4038	1130	574
MEAN	21.7	507	919	186	527	521	991	517	774	130	36.5	19.1
MAX	74	2220	3250	359	1140	1020	2680	1940	3140	231	51	32
MIN	11	18	260	126	130	180	430	220	176	54	24	12
CFSM	.15	3.43	6.21	1.26	3.56	3.52	6.70	3.49	5.23	.88	.25	.13
IN.	.17	3.82	7.16	1.45	3.84	4.06	7.47	4.03	5.84	1.01	.28	.14

CAL YR 1983 TOTAL 152794 MEAN 419 MAX 4020 MIN 11 CFSM 2.83 IN. 38.40
WTR YR 1984 TOTAL 156294 MEAN 427 MAX 3250 MIN 11 CFSM 2.89 IN. 39.28

BEST COPY AVAILABLE

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

LOCATION.--Lat 45°35'07", long 69°42'48", Piscataquis County, Hydrologic Unit 01030001, on left bank at wharf at East Outlet of Moosehead Lake.

DRAINAGE AREA.--1,266 mi^2.

PERIOD OF RECORD.--March 1895 to current year.

GAGE.--Nonrecording gage read daily at 0700. Datum of gage is 1,011.48 ft, National Geodetic Vertical Datum of 1929.

COOPERATION.--Gage-height record furnished by Kennebec Water Power Co.

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet partly rebuilt of concrete in 1947-48 with gate sills at elevation 7.0 ft. Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft at a faster rate than formerly. Capacity, 23,735,000,000 ft^3 between gage heights 10.0 ft and 17.5 ft. Water is used primarily for power. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1984 is given below:

October	110	February	110	June	1010
November	110	March	100	July	400
December	125	April	110	August	130
January	120	May	170	September	70

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 18.0 ft May 30, 1902; minimum observed, 10.0 ft or lower, present datum Mar. 20-29, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 17.86 ft May 31; minimum observed, 14.23 ft Sept. 29

Capacity table (elevation, in feet, and contents, in million cubic feet)

14.0	12,537
15.0	15,713
16.0	18,908
17.0	22,121
18.0	25,355

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.68	15.10	16.55	17.48	16.06	14.99	14.60	17.10	17.84	17.56	17.04	15.77
2	15.63	15.09	16.64	17.46	16.01	14.94	14.52	17.20	17.80	17.54	17.00	15.69
3	15.63	15.06	16.66	17.38	15.99	14.91	14.46	17.26	17.65	17.50	16.98	15.64
4	15.61	15.06	16.67	17.34	15.92	14.89	14.42	17.28	17.56	17.44	16.96	15.59
5	15.60	15.04	16.74	17.32	15.89	14.94	14.34	17.32	17.28	17.42	16.96	15.50
6	15.66	15.14	16.70	17.29	15.92	14.82	14.36	17.36	17.43	17.45	16.84	15.49
7	15.66	15.19	16.78	17.27	15.89	14.82	14.46	17.36	17.49	17.42	16.78	15.42
8	15.68	15.19	16.89	17.24	15.84	14.80	14.60	17.34	17.54	17.48	16.78	15.38
9	15.72	15.26	16.98	17.17	15.80	14.78	14.75	17.34	17.54	17.50	16.75	15.31
10	15.66	15.22	17.00	17.16	15.74	14.75	14.82	17.33	17.54	17.48	16.66	15.26
11	15.64	15.26	17.08	17.12	15.68	14.71	14.89	17.39	17.50	17.40	16.63	15.20
12	15.60	15.34	17.09	17.09	15.64	14.71	14.92	17.39	17.45	17.40	16.58	15.17
13	15.58	15.40	17.16	17.06	15.58	14.66	14.98	17.50	17.38	17.39	16.56	15.10
14	15.64	15.44	17.28	16.98	15.49	14.72	15.08	17.54	17.38	17.30	16.55	15.05
15	15.60	15.44	17.42	16.92	15.49	14.84	15.22	17.60	17.42	17.28	16.52	14.96
16	15.58	15.44	17.50	16.86	15.46	14.80	15.34	17.63	17.48	17.24	16.51	14.88
17	15.55	15.53	17.58	16.84	15.40	14.78	15.51	17.68	17.48	17.25	16.50	14.80
18	15.52	15.53	17.60	16.78	15.34	14.81	15.68	17.70	17.48	17.26	16.44	14.77
19	15.51	15.60	17.66	16.72	15.31	14.84	15.84	17.64	17.58	17.26	16.38	14.71
20	15.46	15.64	17.71	16.66	15.26	14.84	16.01	17.58	17.62	17.25	16.32	14.67
21	15.45	15.60	17.70	16.58	15.25	14.84	16.15	17.64	17.61	17.26	16.26	14.71
22	15.36	15.74	17.69	16.52	15.18	14.86	16.28	17.60	17.60	17.26	16.20	14.63
23	15.31	15.76	17.76	16.44	15.12	14.87	16.38	17.55	17.58	17.26	16.14	14.58
24	15.31	15.80	17.74	16.40	15.11	14.84	16.46	17.60	17.52	17.26	16.14	14.54
25	15.28	15.88	17.68	16.39	15.05	14.81	16.65	17.57	17.50	17.22	16.08	14.50
26	15.24	16.20	17.66	16.32	15.05	14.81	16.74	17.50	17.64	17.16	16.02	14.44
27	15.24	16.30	17.60	16.29	15.01	14.79	16.86	17.50	17.66	17.10	16.00	14.38
28	15.20	16.34	17.58	16.20	15.00	14.75	16.94	17.49	17.64	17.10	15.92	14.36
29	15.20	16.36	17.60	16.19	14.99	14.71	17.04	17.49	17.58	17.10	15.86	14.23
30	15.18	16.48	17.56	16.10	---	14.70	17.11	17.70	17.60	17.08	15.80	14.28
31	15.12	---	17.52	16.07	---	14.64	---	17.86	---	17.06	15.80	---
MAX	15.72	16.48	17.76	17.48	16.06	14.99	17.11	17.86	17.84	17.56	17.04	15.77
MIN	15.12	15.04	16.55	16.06	14.99	14.64	14.34	17.10	17.28	17.06	15.80	14.23
†	16,096	20,449	23,800	19,133	15,681	14,568	22,475	24,901	24,059	22,314	18,268	15,425
‡	-1,916	+4,353	+3,351	-4,667	-3,452	-1,113	+7,907	+2,426	-842	-1,745	-4,046	-4,843

CAL YR 1983. . . . . +2,741
WTR YR 1984. . . . . -2,671

† Contents, in millions of cubic feet, at end of month.
‡ Change in contents, in millions of cubic feet.

BEST COPY AVAILABLE

01042500 KENNEBEC RIVER AT THE FORKS, ME

LOCATION.--Lat 45°20'25", long 69°57'48", Somerset County, Hydrologic Unit 01030001, on right bank at The Forks 0.4 mi upstream from highway bridge and 0.7 mi upstream from Dead River.

DRAINAGE AREA.--1,590 mi^2.

PERIOD OF RECORD.--September 1901 to current year.

REVISED RECORDS.--WSP 1231: 1902-04, 1906-08, 1912, 1914, 1919-20(M), 1923(M), 1926(M), 1928-29(M), 1936(M), 1938(M). WSP 1301: 1928-35 (adjusted monthly runoff). WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 569.03 ft, National Geodetic Vertical Datum of 1929. Prior to June 21, 1912, nonrecording gage, and June 21, 1912, to Oct. 17, 1919, water-stage recorder and nonrecording gage at highway bridge 0.4 mi downstream at different datum.

REMARKS.--Records good. Flow regulated by Moosehead Lake (station 01040500), Brassua Lake, and Moxie, Indian, and First Roach Ponds (Reservoirs in Kennebec River Basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--83 years, 2,627 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft^3/s June 1, 1984, gage height, 13.78 ft; minimum, 85 ft^3/s Sept. 3, 1953, gage height, 1.02 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,300 ft^3/s June 1, gage height, 13.78 ft; minimum daily, 220 ft^3/s Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	1900	1690	2850	4180	2400	3850	11000	28200	7030	3300	2040
2	262	1060	1500	2530	4280	3700	4660	8740	26200	7090	3230	1830
3	2530	813	620	2900	4340	2430	4500	9200	24700	6470	3470	1720
4	2350	1790	976	2640	1880	2430	4560	9200	21300	6030	1480	2950
5	670	462	904	2690	1090	3640	4010	8780	14400	5650	1270	2580
6	1850	540	1460	2940	3600	3770	1230	8910	7750	5700	3590	3170
7	1570	538	1250	3060	4240	3850	1560	8540	7580	5450	2960	3580
8	395	904	2090	3030	3470	3340	1810	8980	8690	6940	3280	1760
9	305	1230	2010	3750	3590	3020	3870	8140	7680	6420	3390	975
10	304	1510	1820	3270	3850	1270	4370	6640	8710	5170	4010	3520
11	2670	897	971	3650	2230	594	4240	5610	8340	5910	897	3740
12	2210	612	1870	3630	662	3830	3240	3990	7710	5960	220	3140
13	1670	617	926	3870	3790	3620	1350	4060	6720	5530	3130	3250
14	1280	580	1540	2520	4060	4020	1420	5800	2870	6290	3180	3180
15	395	577	3930	2440	3970	3540	1630	7080	3000	3710	3050	1740
16	336	1370	4640	3810	3090	2870	3900	8900	2880	3510	3450	500
17	2170	679	2370	3730	3110	800	4170	8400	942	3020	2950	3180
18	2020	688	1900	3480	3050	1540	4290	7380	3330	2920	1720	2990
19	1910	560	2000	3510	1230	3260	4260	4010	3630	2870	1230	2880
20	1940	393	1620	3490	3130	2490	5440	3200	2820	2850	2370	2910
21	2440	1300	1300	1940	3550	2830	5610	5090	3430	2160	2620	2430
22	551	898	2470	1910	3340	3000	4990	5410	3450	1580	3330	888
23	505	513	2840	4090	3370	2590	5330	4470	3080	3410	3200	463
24	1800	475	1900	3970	3390	4590	5450	3560	2210	2700	2610	3240
25	1970	1480	3200	3930	2260	4210	6400	5240	4460	2980	2670	3040
26	1860	2360	2860	3830	700	5170	6890	5160	5710	2890	880	2960
27	1410	1920	3180	4070	3090	4670	8070	4340	8060	3220	3530	2640
28	1810	2760	2690	2390	3150	5180	8970	3510	7400	2220	3290	2370
29	497	1810	2320	1090	2450	4350	8640	4540	7410	1710	2610	638
30	430	1420	2940	3810	---	4230	9260	9760	7680	3110	2220	511
31	1710	---	2790	3800	---	4000	---	19000	---	3560	2110	---
TOTAL	42356	32176	64577	98620	88142	101234	137970	216640	249842	134060	81247	70815
MEAN	1366	1073	2083	3181	3039	3266	4599	6988	8328	4325	2621	2361
MAX	2670	2360	4640	4090	4340	5180	9260	19000	28200	7090	4010	3740
MIN	262	393	620	1090	662	594	1230	3200	942	1580	220	463

CAL YR 1983 TOTAL 1183227 MEAN 3242 MAX 26400 MIN 178
WTR YR 1984 TOTAL 1317679 MEAN 3600 MAX 28200 MIN 220

BEST COPY AVAILABLE

01046500 KENNEBEC RIVER AT BINGHAM, ME

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, Hydrologic Unit 01030003, on right bank at Bingham, 200 ft downstream from highway bridge, 0.4 mi downstream from Austin Stream, and 1.6 mi downstream from Wyman Dam.

DRAINAGE AREA.--2,715 mi^2.

PERIOD OF RECORD.--June 1907 to June 1910, October 1930 to current year.
Water-quality records: Water years 1966-78.
Specific conductance: October 1975 to September 1978.
Water temperatures: October 1975 to September 1978.

REVISED RECORDS.--WSP 1271: 1951(M). WSP 1301: 1936(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 330.20 ft National Geodetic Vertical Datum of 1929. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

REMARKS.--Records fair. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin). Considerable diurnal fluctuation caused by powerplant above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years (water years 1908-09, 1931-84), 4,481 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,200 ft^3/s June 1, 1984, gage height, 15.61 ft; minimum daily, 110 ft^3/s Dec. 25, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65,200 ft^3/s June 1, gage height, 15.61 ft; minimum daily, 1,190 ft^3/s Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3040	3390	2910	3450	5240	4160	6560	21100	62000	9800	4010	3390
2	3040	3300	2700	3700	4840	4660	6580	19300	45800	9500	3990	3730
3	3130	3350	2510	3600	5130	4930	6630	19200	38400	9600	4140	3410
4	3130	3340	1910	3550	4780	4700	6700	17600	33500	9300	4160	3270
5	3190	2040	1730	3500	4800	5100	6810	18000	24700	8900	4020	2700
6	3730	1580	2150	4100	4700	5220	9170	16900	12900	8400	4020	3480
7	3090	1250	3060	4450	4650	4820	10100	15300	10200	8420	4170	3480
8	2900	1980	3530	4300	5450	5010	10600	14900	9700	9390	3880	3650
9	2900	2340	3480	4250	4900	5250	9830	14100	16300	10600	3740	3480
10	3260	2980	3000	4500	5000	4950	7700	12900	12500	9670	3840	3650
11	3140	2250	1990	4400	4850	5100	6020	8610	10300	8950	4070	3500
12	3510	1330	2270	4300	5000	5150	6310	8820	13500	9080	3760	3470
13	2930	1370	2860	4400	4900	5000	4610	9350	8500	9000	3870	3620
14	2880	2360	9340	4600	4930	5450	4920	9130	5600	8910	3580	3640
15	2890	2460	10300	4150	4830	4680	7980	10200	4350	8860	3570	3290
16	3060	2530	9590	4100	4490	4770	8930	13300	4850	7080	3630	3120
17	2860	1670	5560	3900	4290	5100	10200	11300	5200	4650	3740	3630
18	3180	1290	4260	4100	4840	4970	13200	10600	4750	4280	3940	3540
19	3290	1640	3650	4000	4920	4810	10900	8650	4350	4110	3870	3590
20	3310	2030	3330	4250	4890	4880	13400	7890	4700	4120	3750	3600
21	3370	1990	2960	4000	4860	4880	13900	8160	4600	4420	3560	3500
22	3370	1190	3070	4150	4950	5980	12100	7040	5100	4850	3600	3530
23	3380	2880	3020	4300	4800	7760	12500	5320	5200	4720	3860	3470
24	3280	3090	3150	4650	3780	8970	11000	4790	5200	4690	3840	3620
25	3310	3250	3120	4500	4030	8600	16300	5640	5400	4010	3950	3500
26	3450	9000	3100	4400	4040	8650	18300	6560	8000	4160	3820	3700
27	3300	5500	3220	4600	4050	8670	17700	7990	11700	4780	3640	3550
28	3290	3200	3350	4870	2840	8650	18400	8470	11300	4750	3540	3800
29	3280	3500	3220	4550	4030	8450	18400	8550	9400	4700	3630	3900
30	3150	4010	3100	4500	---	6990	18400	24000	9900	4620	3600	4100
31	3240	---	3400	4710	---	6540	---	47800	---	4330	3550	---
TOTAL	98880	87090	114840	130830	134810	182850	324150	401070	407900	212650	118340	105910
MEAN	3190	2736	3705	4220	4649	5898	10810	12940	13600	6860	3817	3530
MAX	3730	9000	10300	4870	5450	8970	18400	47800	62000	10600	4170	4100
MIN	2860	1190	1730	3450	2840	4160	4610	4790	4350	4010	3540	2700

CAL YR 1983 TOTAL 1928470 MEAN 5283 MAX 49900 MIN 1100
WTR YR 1984 TOTAL 2314320 MEAN 6323 MAX 62000 MIN 1190

BEST COPY AVAILABLE

01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, Hydrologic Unit 01030003, on left bank 3.4 mi upstream from Mill Stream and North Anson.

DRAINAGE AREA.--353 mi^2.

PERIOD OF RECORD.--November and December 1901, June 1902 to May 1907, August 1925 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 1231: 1904-07, 1928(M), 1932(M), 1936(M), 1938(M), 1944(M), 1950(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 303.3 ft National Geodetic Vertical Datum of 1929. Nov. 1, 1901, to May 5, 1907, nonrecording gage 1 mi upstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Jan. 19 to Apr. 3. Some regulation at low flows by mills above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--63 years (water years 1902-06, 1926-84), 723 ft^3/s, (27.81 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,800 ft^3/s Mar. 19, 1936, gage height, 21.17 ft; maximum gage height, 27.78 ft Feb. 21, 1978 (ice jam); minimum discharge, 18 ft^3/s Oct. 29, 1929, gage height, 2.02 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 25	2200	9280	10.91	Apr. 17	0600	6120	8.95
Dec. 14	1200	10400	11.56	Apr. 25	1100	7500	9.82
Apr. 06	1100	* 15300	14.16	May 31	2100	13300	13.11

Minimum discharge, 64 ft^3/s Sept. 30, gage height, 2.59 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	135	1390	550	235	475	970	2860	8500	948	167	94
2	86	147	1080	520	235	440	1060	2050	5460	658	142	89
3	85	150	892	490	230	415	1220	1500	4450	521	136	83
4	85	494	704	460	300	390	1380	2300	2750	445	128	80
5	108	2670	679	440	440	370	1730	3350	2060	634	122	80
6	236	3160	653	420	410	350	11600	2200	1450	1240	117	79
7	262	2030	1740	400	375	335	8340	1760	1300	911	115	75
8	192	1300	1760	390	335	320	5890	1540	3710	2140	122	73
9	166	917	1210	375	305	305	3600	1870	2550	1250	159	71
10	146	783	1030	360	280	290	2500	1540	1620	941	154	70
11	140	1110	794	350	270	280	1920	1200	1140	741	155	72
12	132	2060	1710	340	265	270	2090	1910	853	1590	152	91
13	252	1470	2990	330	260	260	2620	3120	689	1260	149	109
14	466	977	8390	315	255	250	3200	2530	626	880	163	90
15	405	740	5390	305	450	245	3580	2490	763	711	218	83
16	295	729	3450	300	750	250	3250	1890	575	600	304	78
17	244	3520	2380	285	1350	260	5500	1420	476	490	225	74
18	212	2190	1660	280	900	290	5080	1150	415	371	182	71
19	183	1450	1310	275	600	340	4350	979	681	415	166	69
20	167	1030	826	270	510	650	3670	877	666	359	152	79
21	156	1240	775	270	450	1700	3250	869	472	312	168	81
22	148	2260	710	265	415	3000	2500	831	414	259	155	91
23	143	1700	680	260	390	2600	2180	874	364	253	147	119
24	152	1300	650	260	380	2200	2710	1470	320	259	160	103
25	176	4750	625	255	500	1850	5780	904	1090	231	153	69
26	168	5640	605	255	660	1550	3980	735	4530	210	121	66
27	160	2860	580	250	590	1350	3150	818	3280	206	109	65
28	150	1810	570	245	550	1180	2840	649	1860	298	102	66
29	150	1560	710	245	530	1050	2640	2100	1210	268	94	65
30	145	1830	650	240	---	950	2620	7980	1060	220	89	64
31	139	---	590	240	---	900	---	10500	---	187	92	---
TOTAL	5637	52012	47183	10240	13220	25115	105200	66266	55334	19808	4618	2399
MEAN	182	1734	1522	330	456	810	3507	2138	1844	639	149	80.0
MAX	466	5640	8390	550	1350	3000	11600	10500	8500	2140	304	119
MIN	85	135	570	240	230	245	970	649	320	187	89	64
CFSM	.52	4.91	4.31	.93	1.29	2.29	9.93	6.06	5.22	1.81	.42	.23
IN.	.59	5.48	4.97	1.08	1.39	2.65	11.09	6.98	5.83	2.09	.49	.25

CAL YR 1983 TOTAL 390237 MEAN 1069 MAX 10900 MIN 80 CFSM 3.03 IN. 41.12
WTR YR 1984 TOTAL 407032 MEAN 1112 MAX 11600 MIN 64 CFSM 3.15 IN. 42.89

BEST COPY AVAILABLE

01047730 WILSON STREAM AT EAST WILTON, ME

LOCATION.--Lat 44°36'55", long 70°11'42", Franklin County, Hydrologic Unit 01030003, on left bank 0.1 mi upstream from railroad bridge in East Wilton, and 1.5 mi downstream from Varnum Stream.

DRAINAGE AREA.--45.8 mi^2.

PERIOD OF RECORD.--February 1977 to September 1984 (Discontinued).

REVISED RECORDS.--WDR ME-79-1: 1978(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Wilson Pond 3.7 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--7 years, 95.6 ft /s (28.35 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft^3/s Apr. 6, 1984, gage height, 14.69 ft; minimum daily, 2.9 ft^3/s Sept.25, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,100 ft^3/s Apr. 6, gage height, 14.69 ft; minimum daily, 2.9 ft^3/s Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	11	194	69	24	63	141	127	1060	119	13	7.3
2	7.2	11	148	65	24	58	177	112	725	93	12	6.6
3	7.2	11	124	61	24	53	217	102	525	77	11	6.2
4	6.9	63	100	58	35	50	258	207	320	67	9.9	6.2
5	11	548	98	55	56	47	433	255	258	68	9.1	6.1
6	16	541	96	52	60	44	2490	186	188	75	8.2	5.8
7	12	301	343	51	51	42	1320	144	146	76	7.5	5.9
8	9.2	186	245	49	42	40	815	127	130	94	7.6	5.5
9	8.3	129	163	48	37	38	472	158	109	76	7.0	5.4
10	7.9	100	138	46	33	36	316	132	92	66	6.9	5.5
11	7.5	152	112	44	32	35	271	111	81	63	5.8	6.0
12	7.6	210	90	43	31	34	315	200	72	98	6.3	7.9
13	53	161	418	42	31	33	362	297	54	78	9.8	7.7
14	49	116	1290	40	30	32	404	266	41	66	27	7.2
15	41	93	749	39	40	32	386	232	44	63	32	7.0
16	31	144	452	38	200	31	411	175	35	55	19	6.8
17	24	382	305	36	155	32	647	141	34	50	12	6.4
18	22	277	216	35	110	39	634	119	33	45	10	6.1
19	18	186	164	34	78	55	491	106	38	45	9.0	6.4
20	15	135	135	33	65	175	375	97	32	39	12	6.4
21	13	215	115	32	57	280	309	89	30	34	11	3.8
22	12	281	105	31	52	469	246	80	28	31	8.7	3.3
23	11	209	97	30	45	438	209	91	23	27	9.3	3.1
24	21	168	93	29	50	310	236	133	21	24	15	3.0
25	22	860	89	28	65	227	459	90	114	19	11	2.9
26	19	864	87	27	100	181	363	82	329	15	8.7	3.0
27	18	393	84	27	80	156	261	79	281	16	8.0	3.0
28	16	246	96	26	76	142	202	63	183	23	7.6	3.3
29	16	249	110	26	70	134	163	73	135	18	8.2	5.8
30	13	255	90	25	---	124	141	241	148	16	8.6	6.1
31	12	---	75	25	---	119	---	992	---	15	7.7	---
TOTAL	534.0	7497	6621	1244	1753	3549	13524	5307	5309	1651	338.9	165.7
MEAN	17.2	250	214	40.1	60.4	114	451	171	177	53.3	10.9	5.52
MAX	53	864	1290	69	200	469	2490	992	1060	119	32	7.9
MIN	6.9	11	75	25	24	31	141	63	21	15	5.8	2.9

CAL YR 1983 TOTAL 50195.7 MEAN 138 MAX 1370 MIN 6.3
WTR YR 1984 TOTAL 47493.6 MEAN 130 MAX 2490 MIN 2.9

BEST COPY AVAILABLE

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, Hydrologic Unit 01030003, on right bank 1.7 mi upstream from Twentyfivemile Stream and 5.0 mi south of Pittsfield.

DRAINAGE AREA.--572 mi².

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 133.9 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by dam 0.4 mi upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond, combined capacity about 2,345,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--55 years (water years 1930-84), 969 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft³/s Mar. 22, 1936, gage height, 13.18 ft; minimum daily, 4.5 ft³/s Nov. 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,500 ft³/s June 4, 11.32 ft; minimum daily, 70 ft³/s Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	180	4140	990	470	2560	1840	1960	6070	2430	96	86
2	233	122	3550	911	443	2360	1950	1720	8560	2350	156	70
3	206	110	3020	847	415	2140	2040	1480	10200	2050	114	75
4	185	90	2590	789	599	1930	2270	1340	10500	1650	88	78
5	150	175	2250	720	705	1730	2500	1420	9910	1390	91	102
6	124	456	1970	640	736	1590	3680	1540	8810	989	94	290
7	191	588	2310	454	797	1520	5450	1570	7630	1010	96	398
8	206	446	2690	296	702	1360	6880	1540	6640	998	98	437
9	198	497	2860	414	619	1100	7360	1490	5530	990	98	500
10	192	631	2850	564	560	794	7050	1420	4680	1110	99	469
11	174	583	2670	590	432	672	6410	1330	3940	1230	99	536
12	159	687	2430	609	298	481	5680	1380	3160	1250	99	815
13	173	780	2600	625	276	473	5040	1910	2530	1230	99	848
14	225	814	3810	586	456	519	4330	2440	2120	1190	100	778
15	258	787	5230	574	536	337	3720	2980	1810	1140	101	703
16	236	807	6110	565	865	510	3520	3360	1440	981	101	626
17	220	1110	6210	556	1040	551	3600	3360	1110	562	101	544
18	155	1360	5950	566	1290	547	3770	3140	900	209	101	467
19	103	1480	5280	572	1220	566	3870	2770	829	191	99	403
20	75	1470	4210	552	1110	759	3900	2430	739	266	101	307
21	114	1520	3210	571	1080	1250	3840	2140	627	215	101	308
22	138	1870	2570	589	1140	1820	3630	1860	646	172	101	671
23	148	2140	2100	513	1100	2650	3340	1560	627	137	102	673
24	155	2260	1760	436	1140	3250	2930	1350	558	135	101	644
25	160	2920	1520	577	1410	3570	2690	1230	571	142	98	607
26	161	4110	1560	530	1990	3810	2590	1110	917	296	182	552
27	155	4920	1520	535	2330	3490	2580	1000	1600	173	377	506
28	148	5120	1170	563	2470	2940	2550	931	2200	145	366	475
29	128	4890	1200	509	2520	2470	2430	934	2450	271	283	451
30	130	4610	1220	437	---	2170	2240	1680	2470	169	159	442
31	147	---	1060	423	---	1940	---	3250	---	120	107	---
TOTAL	5315	47533	91620	18103	28749	51859	113680	57625	109774	25186	4008	13856
MEAN	171	1584	2955	584	991	1673	3789	1859	3659	812	129	462
MAX	268	5120	6210	990	2520	3810	7360	3360	10500	2430	377	848
MIN	75	90	1060	296	276	337	1840	931	558	120	88	70

CAL YR 1983 TOTAL 523910 MEAN 1435 MAX 9430 MIN 59
WTR YR 1984 TOTAL 567308 MEAN 1550 MAX 10500 MIN 70

BEST COPY AVAILABLE

01049130 JOHNSON BROOK AT SOUTH ALBION, ME

LOCATION.--Lat 44°29'53", long 69°29'12", Kennebec County, Hydrologic Unit 01030003, on right bank approximately 0.8 mi downstream from Dutton Pond and approximately 0.5 mi southwest of Albion.

DRAINAGE AREA.--2.92 mi^2.

PERIOD OF RECORD.--May 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 230 ft, from topographic map.

REMARKS.--Records good except those for the winter period, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 159 ft^3/s Apr. 25, 1983, gage height 11.60 ft; minimum discharge, no flow many days during Aug., Sept. Oct., and Nov. 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 25	1500	72	10.68	Feb. 15	1430	47	10.18
Dec. 07	0200	46	10.15	Mar. 22	1715	31	9.82
Dec. 13	2330	66	10.57	Apr. 06	0230	82	10.86
Dec. 29	0030	30	9.79	June 02	1345	* 110	11.27

Minimum discharge, no flow many days during Oct. and Nov.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	18	5.2	1.2	14	11	7.0	70	2.0	.15	.06
2	.00	.00	14	4.5	1.1	12	14	6.1	79	1.7	.14	.05
3	.00	.00	11	4.3	1.1	10	16	5.2	67	1.4	.11	.04
4	.00	.04	9.9	3.9	12	8.6	17	7.6	52	1.2	.08	.04
5	.00	.96	9.3	3.7	9.3	6.7	24	8.6	39	1.2	.08	.04
6	.00	1.1	8.4	3.5	7.2	6.0	62	7.5	29	1.7	.09	.03
7	.00	.53	27	3.4	6.2	5.2	57	6.6	25	2.0	.13	.02
8	.00	.42	21	3.2	5.7	4.2	49	5.9	23	2.8	.22	.02
9	.00	.39	17	2.7	4.6	3.6	37	6.4	19	2.5	.12	.02
10	.00	.38	14	2.4	4.0	3.2	28	6.0	13	2.0	.11	.02
11	.00	1.7	11	2.2	4.7	2.8	23	5.1	8.5	1.6	.12	.28
12	.00	1.7	9.8	1.9	6.6	2.5	20	11	5.7	1.5	.14	.93
13	.32	1.7	38	1.8	8.1	2.2	17	13	4.2	1.3	.11	.29
14	.28	1.5	56	1.7	7.1	1.3	16	16	3.4	1.2	.12	.25
15	.06	1.5	54	1.6	20	1.3	14	16	6.8	1.1	.13	.25
16	.02	5.0	45	1.5	26	1.5	15	14	5.0	1.0	.11	.25
17	.01	6.6	34	1.5	23	17	16	12	3.0	.91	.07	.18
18	.00	6.0	26	1.5	19	10	15	10	1.8	.81	.06	.13
19	.00	5.7	19	1.4	16	10	15	9.6	2.2	.80	.06	.11
20	.00	5.0	13	1.4	15	15	13	8.3	1.4	.61	.83	.10
21	.00	9.5	10	1.4	14	14	12	6.6	1.3	.49	.42	.10
22	.00	10	8.5	1.3	12	26	11	5.0	1.2	.40	.21	.08
23	.00	10	7.2	1.3	10	31	10	3.3	1.2	.37	.21	.07
24	.01	9.8	6.1	3.6	12	29	10	3.2	1.1	.33	.55	.06
25	.03	43	4.9	9.0	14	26	11	2.1	2.1	.27	.29	.06
26	.02	43	4.3	4.0	24	22	10	1.4	4.4	.24	.17	.05
27	.02	40	3.7	2.6	21	18	10	1.5	5.9	.21	.11	.04
28	.01	31	4.1	2.3	17	15	9.6	1.1	4.3	.36	.09	.04
29	.01	26	12	1.8	16	13	9.0	8.9	3.1	.30	.08	.03
30	.00	22	6.8	1.7	---	11	8.0	25	2.4	.22	.07	.03
31	.00	---	5.9	1.5	---	10	---	55	---	.18	.07	---
TOTAL	.79	284.52	528.9	83.9	337.9	352.1	579.6	295.0	485.0	32.70	5.25	3.67
MEAN	.02	9.48	17.1	2.71	11.7	11.4	19.3	9.52	16.2	1.05	.17	.12
MAX	.32	43	56	9.0	26	31	62	55	79	2.8	.83	.93
MIN	.00	.00	3.7	1.3	1.1	1.3	8.0	1.1	1.1	.18	.06	.02
CFSM	.01	3.25	5.86	.93	4.01	3.90	6.61	3.26	5.55	.36	.06	.04
IN.	.01	3.62	6.74	1.07	4.30	4.49	7.38	3.76	6.18	.42	.07	.05

CAL YR 1983 TOTAL 2615.95 MEAN 7.17 MAX 81 MIN .00 CFSM 2.46 IN. 33.33
WTR YR 1984 TOTAL 2989.33 MEAN 8.17 MAX 79 MIN .00 CFSM 2.80 IN. 38.08

BEST COPY AVAILABLE

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°28'25", long 69°41'08", Kennebec County, Hydrologic Unit 01030003, on right bank at North Sidney, 5.3 mi downstream from Sebasticook River, and 11.5 mi upstream from Cushnoc Dam at Augusta.

DRAINAGE AREA.--5,403 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.97 ft, Prior to Oct 1, 1979, at datum 22.05 ft higher. National Geodetic Vertical Datum of 1929. Since July 10, 1980, auxiliary water-stage recorder 11.5 mi downstream from base gage.

REMARKS.--Records fair. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin).

AVERAGE DISCHARGE.--6 years, 9,700 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 113,000 ft³/s June 1, 1984, gage height, 26.60 ft; minimum daily, 2,420 ft³/s Mar. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 113,000 ft³/s June 1, gage height, 26.60 ft; minimum daily, 3,900 ft³/s Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4100	4350	19200	6500	6400	11200	15800	28500	110000	17400	4900	4050
2	4050	4400	16700	6500	6450	10800	17000	29100	99500	16400	4900	3900
3	4200	4450	14500	6300	6500	10300	18300	25600	86800	15000	4750	4000
4	4250	4800	12400	6200	6750	10000	20200	24900	66800	14200	4550	4100
5	4250	11000	10700	6200	7250	9500	21600	31900	54600	13800	4500	4100
6	4300	16000	9560	6250	7400	9200	56000	28300	39600	14000	4500	4250
7	4400	11500	17800	6150	7200	9000	71000	24800	30400	15000	4450	4600
8	4300	8500	21200	6200	7150	8600	49000	22900	32300	16100	4400	4600
9	4250	6200	16700	6250	7000	8200	38000	22500	33800	19100	4300	4600
10	4150	6600	15200	6300	6900	7800	31700	22200	25700	16300	4250	4650
11	4150	7500	13000	6300	6650	7500	26500	18900	24700	13700	4350	4900
12	4250	9600	12200	6350	6600	7000	24600	17300	21900	15000	4400	5250
13	4700	8300	25000	6400	6450	6800	25500	27200	18500	14700	4400	5600
14	5000	7400	43000	6350	6500	6400	24700	25300	16100	14200	4200	5400
15	4950	6900	41000	6250	7500	6600	26400	26200	12500	13000	4350	5100
16	4750	7000	35000	6100	9100	7200	26800	25600	10900	12300	4450	4600
17	4500	15000	30000	6000	9900	7400	33600	24100	8750	9000	4500	4650
18	4400	13000	25000	6100	9800	7700	35900	21700	8850	6050	4450	4700
19	4300	10500	21000	6150	9750	8300	35500	19300	9140	6050	4500	4600
20	4350	8600	16400	6100	9700	17500	30000	17300	9420	6000	4600	4350
21	4300	10000	13500	5900	9800	24600	31100	15700	9290	5900	4200	4200
22	4250	14500	10800	5400	10000	25400	28500	15600	9100	5950	4500	4500
23	4300	13000	8500	5650	9500	26700	25000	13300	8380	6000	4550	4400
24	4400	12800	7800	6050	8800	27000	24800	13100	8360	6050	4550	4500
25	4550	29000	6800	6500	11000	24900	28900	13000	8640	5300	4600	4500
26	4600	40000	6400	6250	13500	21900	37300	12400	23700	5050	4600	4500
27	4600	30000	6250	6300	13000	21000	32100	12700	29000	5050	4800	4800
28	4550	20500	5950	6400	12500	19800	30500	13700	23700	6000	4600	5250
29	4400	18000	6000	6250	11500	18400	29300	14600	19200	6100	4600	4700
30	4200	22000	6200	6200	---	16700	28500	36800	16500	5800	4300	4300
31	4250	---	6000	6250	---	15500	---	71300	---	5100	4200	---
TOTAL	136000	381400	499760	192100	250550	418900	924100	715800	876130	329600	139200	137650
MEAN	4387	12710	16120	6197	8640	13510	30800	23090	29200	10630	4490	4588
MAX	5000	40000	43000	6500	13500	27000	71000	71300	110000	19100	4900	5600
MIN	4050	4350	5950	5400	6400	6400	15800	12400	8360	5050	4200	3900

CAL YR 1983 TOTAL 4519780 MEAN 12380 MAX 105000 MIN 3820
WTR YR 1984 TOTAL 5001190 MEAN 13660 MAX 110000 MIN 3900

BEST COPY AVAILABLE

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1978 to current year.
pH: October 1978 to current year.
WATER TEMPERATURES: October 1978 to current year.
DISSOLVED OXYGEN: October 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1978.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor and flow restrictions in the pumping system.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 174 micromhos July 13, 1979; minimum, 30 micromhos June 1, 2, 4, 1984.
pH: Maximum, 7.4 units Jan. 23, June 26, 29, July 13, 1979, Sept. 11, 1984; minimum, 6.1 units Mar. 26, July 27, 1979, June 29, 1981.
WATER TEMPERATURES: Maximum, 27.5°C Aug. 8, 1980; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum recorded, 15.1 mg/L Feb. 5, 1983; minimum, 4.7 mg/L Aug. 15, 1982.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 101 micromhos Dec. 29, Jan. 25; minimum, 30 micromhos June 1, 2, 4.
pH: Maximum, 7.4 units Sept. 11; minimum, 6.4 units June 1-4.
WATER TEMPERATURES: Maximum, 25.0°C Aug. 8; minimum, 0.0°C on many days during winter period.
DISSOLVED OXYGEN: Maximum, 15.4 mg/L Apr. 7; minimum, 7.2 mg/L Sept. 1.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV												
17...	1515	15000	70	7.0	7.5	5.0	4.0	754	12.4	98	>2000	>3400
JAN												
03...	1300	6300	63	6.6	0.0	0.0	2.6	775	13.9	93	>400	580
FEB												
10...	1230	6900	64	6.9	-11.0	0.0	2.0	780	14.7	98	E1200	--
MAY												
01...	1400	28500	39	7.0	15.5	7.5	1.4	762	13.0	108	48	K10
JUL												
20...	1500	6000	57	7.3	27.0	23.0	1.5	770	8.7	100	130	55
AUG												
31...	1200	4700	63	7.4	23.0	23.0	0.7	765	7.9	92	1200	2

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV												
17...	20	6.3	1.1	5.0	0.8	15	9.2	8.9	<0.1	4.8	52	46
JAN												
03...	19	5.8	1.1	4.5	0.6	15	8.0	5.4	<0.1	4.5	54	39
FEB												
10...	19	5.6	1.2	4.4	0.7	13	7.8	6.2	<0.1	4.0	52	38
MAY												
01...	13	3.9	0.8	2.0	0.4	10	5.8	2.1	<0.1	3.6	30	25
JUL												
20...	16	5.0	0.9	3.7	0.5	12	9.7	5.5	<0.1	3.6	38	36
AUG												
31...	18	5.4	1.0	5.0	0.6	14	6.7	5.8	<0.1	2.9	42	36

E ESTIMATED
K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BEST COPY AVAILABLE

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
NOV 17...	0.27	0.19	0.24	0.4	0.06	0.03	0.02	80	<1	15.00
JAN 03...	0.2	0.06	0.08	0.7	0.02	0.02	0.01	--	--	--
FEB 10...	0.16	0.06	0.08	0.9	0.03	0.02	<0.01	40	<1	14.00
MAY 01...	0.1	0.11	0.14	0.5	<0.01	0.02	<0.01	90	<1	8.00
JUL 20...	<0.1	<0.01	0.01	0.03	0.04	0.03	<0.01	--	--	--
AUG 31...	<0.1	0.05	0.06	0.6	<0.01	0.01	<0.01	40	1	10.00

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 17...	<0.50	<1	<1	<3.00	1	110	2	<4.00	26	0.1
JAN 03...	--	--	--	--	--	--	--	--	--	--
FEB 10...	<0.50	<1	<1	<3.00	1	80	4	<4.00	25	0.4
MAY 01...	<1.00	<1	7	<3.00	2	60	3	<4.00	12	<0.1
JUL 20...	--	--	--	--	--	--	--	--	--	--
AUG 31...	<0.00	<1	<1	<3.00	3	60	3	<4.00	7	0.2

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 17...	<10	<1	<1	<1	30	<6.0	<3.00	12	486	91
JAN 03...	--	--	--	--	--	--	--	11	187	100
FEB 10...	<10	3	<1	<1	30	<6.0	10	1	19	100
MAY 01...	<10	1	<1	<1	20	<6.0	5.00	10	769	45
JUL 20...	--	--	--	--	--	--	--	9	146	--
AUG 31...	<10	<1	<1	<1	30	<6.0	20	10	113	--

BEST COPY AVAILABLE

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	65	61	63	72	63	68	52	51	52	64	63	64
2	65	62	63	73	66	69	53	51	52	65	64	64
3	67	62	64	71	67	68	55	53	54	65	62	63
4	67	63	66	74	68	70	59	56	57	63	61	62
5	70	62	66	80	64	74	62	58	61	64	62	63
6	66	61	63	63	54	56	63	61	62	66	63	64
7	62	57	59	60	55	57	69	60	63	65	62	63
8	58	55	56	57	54	55	59	54	55	62	62	62
9	59	55	57	56	53	54	54	51	52	63	61	62
10	59	54	56	58	55	56	53	52	53	62	60	61
11	57	53	54	67	55	61	55	51	53	62	60	61
12	56	53	56	63	60	61	57	51	53	61	60	61
13	65	55	61	60	59	60	74	56	63	61	60	61
14	63	58	60	73	60	65	59	38	48	62	61	62
15	63	58	61	66	63	64	37	31	33	63	60	62
16	63	62	62	76	65	68	38	34	36	62	60	60
17	67	62	63	67	61	64	41	38	39	62	60	61
18	67	61	64	60	55	57	43	41	42	64	62	63
19	70	62	67	57	55	56	45	44	45	63	60	61
20	72	62	67	59	56	58	47	45	46	63	63	63
21	68	60	64	64	54	58	56	46	51	63	62	63
22	68	61	66	61	58	60	59	55	57	63	62	62
23	68	65	67	58	55	57	62	59	60	62	60	62
24	67	60	63	58	56	57	63	61	62	64	60	61
25	64	59	62	61	52	58	63	61	61	101	66	80
26	65	61	63	51	38	44	61	58	59	92	71	77
27	65	58	62	41	37	39	58	57	58	70	64	66
28	64	62	63	46	41	43	57	57	57	64	60	62
29	63	60	62	51	46	49	101	57	76	62	60	61
30	62	59	60	52	50	51	68	64	66	64	63	63
31	65	61	63	---	---	---	66	64	65	64	63	63
MONTH	72	53	62	80	37	59	101	31	55	101	60	63

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	63	61	62	69	63	65	55	52	53	40	39	39
2	63	61	62	63	61	62	63	53	57	39	37	38
3	66	61	62	61	58	59	57	55	56	38	37	38
4	91	68	81	60	58	59	55	53	54	43	38	40
5	76	71	73	61	58	59	55	51	52	41	39	40
6	81	74	77	69	59	63	55	38	48	39	37	38
7	75	66	69	66	61	63	37	32	34	38	37	37
8	66	65	65	62	59	61	37	35	36	38	36	37
9	66	65	65	59	57	58	40	38	39	39	38	38
10	65	64	64	58	57	58	44	40	42	39	38	38
11	64	62	63	62	57	60	45	43	44	39	38	38
12	84	65	73	69	61	63	48	45	46	50	39	43
13	77	67	69	64	57	60	48	47	48	48	43	45
14	68	66	67	57	56	56	48	47	48	46	42	44
15	71	67	69	60	55	56	47	44	45	44	42	43
16	68	66	67	64	60	62	45	42	43	42	39	41
17	65	63	64	65	62	64	45	42	43	39	38	38
18	63	61	62	64	62	63	41	39	40	40	38	39
19	63	61	62	77	60	66	40	39	40	41	40	40
20	64	63	64	64	58	61	43	40	42	42	41	42
21	63	61	62	57	50	53	43	41	42	45	41	43
22	61	60	60	51	48	50	41	40	41	48	44	46
23	62	60	61	48	45	46	42	40	41	51	46	48
24	65	60	62	44	42	43	46	43	43	51	49	50
25	64	62	63	44	42	43	46	41	45	52	50	51
26	67	63	65	47	43	45	41	36	38	55	51	53
27	62	59	60	50	45	47	39	37	38	54	52	53
28	67	58	62	51	46	48	41	38	39	52	48	50
29	77	62	70	50	46	48	40	39	40	54	46	49
30	---	---	---	57	45	51	40	39	40	51	37	44
31	---	---	---	54	47	51	---	---	---	36	31	34
MONTH	91	58	66	77	42	56	63	32	44	55	31	42

BEST COPY AVAILABLE

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	33	30	31	43	42	42	58	51	54	66	62	64
2	33	30	32	46	42	44	59	57	58	66	62	64
3	33	31	32	45	43	44	61	56	58	66	62	64
4	32	30	31	44	43	43	62	61	61	69	63	66
5	33	32	32	45	43	44	61	58	60	67	61	66
6	39	33	36	46	44	45	63	57	59	61	57	59
7	48	40	44	48	44	46	62	58	59	---	---	---
8	---	---	---	48	45	47	63	60	62	---	---	---
9	---	---	---	45	41	42	65	62	64	---	---	---
10	---	---	---	42	40	41	66	63	65	---	---	---
11	---	---	---	42	39	40	66	64	65	68	61	64
12	---	---	---	44	42	43	67	66	66	69	62	65
13	---	---	---	43	40	41	67	64	66	66	62	64
14	---	---	---	44	40	42	67	62	65	66	63	64
15	---	---	---	46	43	44	66	61	63	66	63	64
16	52	48	50	46	43	44	63	61	62	67	63	65
17	56	51	54	45	42	44	63	60	61	70	64	67
18	60	57	58	51	45	49	62	59	61	74	66	71
19	59	55	57	57	51	54	62	59	60	77	67	73
20	57	54	55	63	57	59	65	62	63	71	67	69
21	53	52	53	62	60	61	66	61	64	70	59	63
22	52	51	52	61	58	59	63	60	62	61	58	59
23	53	51	52	58	55	57	61	60	61	60	58	59
24	54	51	52	57	55	56	65	59	62	63	60	61
25	62	51	56	58	55	56	63	58	60	67	59	62
26	62	44	53	57	53	55	65	62	64	65	60	61
27	45	37	41	62	57	59	67	63	65	63	59	61
28	38	37	38	63	59	61	69	65	67	64	59	61
29	41	38	40	62	56	59	68	65	66	73	58	67
30	43	40	42	56	53	54	66	64	65	68	62	65
31	---	---	---	53	51	52	65	63	64	---	---	---
MONTH	62	30	45	63	39	49	69	51	62	77	57	64
YEAR	101	30	56									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.8	6.8
2	6.8	6.7	6.7	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.7	6.8
3	6.9	6.6	6.7	6.9	6.8	6.8	6.8	6.6	6.7	6.8	6.7	6.8
4	6.7	6.6	6.7	6.8	6.7	6.8	6.8	6.7	6.7	6.8	6.8	6.8
5	6.6	6.6	6.6	6.9	6.8	6.9	6.8	6.5	6.6	6.6	6.7	6.8
6	6.7	6.5	6.6	6.8	6.7	6.8	6.8	6.6	6.7	6.8	6.8	6.8
7	6.7	6.5	6.6	6.8	6.7	6.8	6.9	6.7	6.8	6.8	6.8	6.8
8	6.7	6.6	6.6	6.7	6.6	6.6	6.9	6.7	6.8	6.8	6.8	6.8
9	6.7	6.6	6.6	6.6	6.6	6.6	6.8	6.7	6.7	6.8	6.8	6.8
10	6.8	6.6	6.7	6.7	6.6	6.6	6.7	6.7	6.7	6.8	6.8	6.8
11	6.8	6.6	6.7	6.8	6.6	6.7	6.7	6.6	6.7	6.8	6.8	6.8
12	6.7	6.6	6.7	6.8	6.7	6.7	6.8	6.6	6.7	6.8	6.8	6.8
13	6.7	6.6	6.7	6.8	6.7	6.8	6.9	6.6	6.7	6.8	6.8	6.8
14	6.7	6.6	6.7	6.9	6.8	6.8	6.9	6.7	6.8	6.8	6.8	6.8
15	6.8	6.6	6.7	6.9	6.8	6.8	6.7	6.6	6.6	6.8	6.7	6.8
16	6.8	6.7	6.7	6.9	6.8	6.8	6.7	6.6	6.6	6.8	6.7	6.7
17	6.7	6.7	6.7	6.8	6.7	6.7	6.7	6.6	6.7	6.8	6.7	6.8
18	6.7	6.6	6.7	6.8	6.6	6.7	6.8	6.7	6.8	6.8	6.7	6.8
19	6.7	6.6	6.7	6.8	6.8	6.8	6.8	6.7	6.8	6.7	6.7	6.7
20	6.8	6.6	6.7	6.8	6.6	6.7	6.8	6.7	6.7	6.7	6.7	6.7
21	6.8	6.7	6.7	6.8	6.6	6.7	6.8	6.7	6.7	6.7	6.7	6.7
22	6.9	6.7	6.8	6.8	6.7	6.8	6.8	6.8	6.8	6.7	6.7	6.7
23	6.8	6.7	6.8	6.8	6.7	6.8	6.9	6.8	6.8	6.7	6.7	6.7
24	6.7	6.7	6.7	6.8	6.7	6.7	6.9	6.8	6.9	6.7	6.7	6.7
25	6.8	6.7	6.7	6.8	6.7	6.8	6.9	6.8	6.9	6.8	6.7	6.7
26	6.8	6.7	6.7	6.7	6.6	6.7	6.9	6.8	6.8	6.8	6.7	6.8
27	6.8	6.6	6.7	6.6	6.6	6.6	6.8	6.8	6.8	6.8	6.7	6.7
28	6.9	6.7	6.8	6.7	6.6	6.6	6.8	6.8	6.8	6.7	6.7	6.7
29	6.9	6.8	6.8	6.8	6.7	6.8	6.9	6.8	6.9	6.8	6.7	6.7
30	6.9	6.7	6.8	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.7	6.8
31	6.9	6.7	6.8	---	---	---	6.8	6.8	6.8	6.8	6.7	6.8
MONTH	7.0	6.5	6.7	6.9	6.6	6.7	6.9	6.5	6.8	6.8	6.7	6.8

BEST COPY AVAILABLE

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.8	6.7	6.8	6.8	6.8	6.8	7.0	6.9	6.9	6.8	6.7	6.7
2	6.8	6.7	6.8	6.8	6.8	6.8	7.0	6.9	6.9	6.7	6.6	6.7
3	6.8	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.9	6.8	6.7	6.7
4	6.8	6.7	6.8	6.8	6.8	6.8	6.9	6.9	6.9	6.8	6.7	6.7
5	6.8	6.8	6.8	6.8	6.8	6.8	6.9	6.9	6.9	6.8	6.7	6.8
6	6.8	6.8	6.8	6.[illegible]	6.8	6.8	6.9	6.6	6.8	6.8	6.7	6.7
7	6.8	6.8	6.8	6.9	6.8	6.8	6.6	6.5	6.5	6.8	6.7	6.7
8	6.8	6.8	6.8	6.9	6.8	6.8	6.6	6.5	6.6	6.8	6.7	6.7
9	6.8	6.7	6.8	6.9	6.8	6.8	6.7	6.6	6.6	6.8	6.7	6.7
10	6.8	6.6	6.7	6.9	6.8	6.9	6.7	6.7	6.7	6.8	6.7	6.8
11	6.6	6.6	6.6	6.9	6.9	6.9	6.8	6.7	6.8	6.8	6.7	6.8
12	6.7	6.6	6.7	6.9	6.8	6.9	6.8	6.8	6.8	6.8	6.7	6.8
13	6.7	6.7	6.7	6.9	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.8
14	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	[illegible]	6.7
15	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.7	6.8	6.8	[illegible]	6.8
16	6.8	6.7	6.7	6.9	6.8	6.8	6.8	6.7	6.7	6.8	6.7	[illegible]
17	6.8	6.7	6.7	6.9	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7
18	6.7	6.7	6.7	6.9	6.9	6.9	6.8	6.7	6.7	6.8	6.7	6.7
19	6.8	6.7	6.7	6.9	6.9	6.9	6.7	6.7	6.7	6.8	6.7	6.7
20	6.8	6.7	6.7	6.9	6.8	6.8	6.7	6.7	6.7	6.8	6.7	6.7
21	6.8	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.8	6.7	6.7
22	6.8	6.8	6.8	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.7	6.7
23	6.8	6.8	6.8	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.7	6.7
24	6.8	6.8	6.8	6.7	6.7	6.7	6.8	6.7	6.8	6.8	6.7	6.7
25	6.8	6.8	6.8	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.7	6.7
26	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.7	6.7	6.8	6.7	6.7
27	6.9	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.7	6.7
28	6.9	6.8	6.8	6.9	6.8	6.8	6.7	6.7	6.7	6.7	6.7	6.7
29	6.9	6.8	6.8	6.9	6.8	6.9	6.7	6.7	6.7	6.8	6.7	6.7
30	---	---	---	6.9	6.9	6.9	6.7	6.7	6.7	6.8	6.6	6.8
31	---	---	---	7.0	6.9	6.9	---	---	---	6.6	6.5	6.6
MONTH	6.9	6.6	6.8	7.0	6.7	6.8	7.0	6.5	6.8	6.8	6.5	6.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.5	6.4	6.4	7.1	7.0	7.0	7.0	6.8	6.9	7.2	6.9	7.1
2	6.5	6.4	6.4	7.1	7.0	7.0	7.1	6.8	6.9	7.3	6.9	7.1
3	6.5	6.4	6.5	7.1	7.0	7.1	7.1	6.9	6.9	7.3	6.9	7.1
4	6.5	6.4	6.5	7.1	7.0	7.1	7.1	6.8	6.9	7.2	6.9	7.0
5	6.5	6.5	6.5	7.1	7.0	7.0	7.0	6.8	6.9	7.2	6.9	7.1
6	6.6	6.5	6.6	7.1	7.0	7.1	7.0	6.8	6.9	7.3	7.0	7.1
7	6.6	6.5	6.6	7.1	7.0	7.1	7.0	6.8	6.9	---	---	---
8	---	---	---	7.1	7.1	7.1	7.0	6.8	6.9	---	---	---
9	---	---	---	7.1	7.0	7.1	6.9	6.8	6.8	---	---	---
10	---	---	---	7.1	7.0	7.1	6.9	6.8	6.8	---	---	---
11	---	---	---	7.1	7.0	7.0	6.9	6.8	6.8	7.4	7.0	7.2
12	---	---	---	7.1	7.0	7.0	6.9	6.8	6.8	7.2	7.0	7.1
13	---	---	---	7.1	6.9	7.0	6.9	6.7	6.8	7.3	7.0	7.1
14	---	---	---	7.1	6.9	7.0	6.9	6.8	6.8	7.3	7.0	7.1
15	---	---	---	7.1	7.0	7.1	7.0	6.8	6.9	7.1	7.0	7.0
16	7.1	7.1	7.1	7.1	7.0	7.0	7.1	6.9	7.0	7.3	7.0	7.1
17	7.1	7.1	7.1	7.2	7.0	7.1	7.1	6.9	7.0	7.3	7.0	7.1
18	7.1	7.1	7.1	7.1	7.0	7.1	7.1	7.0	7.0	7.2	6.9	7.1
19	7.1	7.1	7.1	7.1	7.0	7.0	7.1	6.9	7.0	7.2	7.0	7.1
20	7.2	7.1	7.1	7.2	7.0	7.1	7.0	6.9	6.9	7.2	7.0	7.1
21	7.2	7.1	7.1	7.2	7.1	7.1	7.2	6.9	7.0	7.2	7.0	7.1
22	7.2	7.1	7.2	7.2	7.0	7.1	7.2	6.9	7.0	7.3	7.0	7.1
23	7.2	7.1	7.2	7.2	7.1	7.1	7.0	6.9	6.9	7.2	6.9	7.0
24	7.2	7.1	7.2	7.3	7.0	7.1	7.1	6.9	7.0	7.2	6.9	7.0
25	7.2	7.1	7.1	7.2	7.1	7.1	7.1	7.0	7.0	7.2	6.9	7.0
26	7.2	7.1	7.1	7.2	7.0	7.1	7.2	7.0	7.1	7.0	6.9	6.9
27	7.1	7.0	7.0	7.1	7.0	7.0	7.1	7.0	7.0	7.2	6.9	7.0
28	7.0	7.0	7.0	7.1	6.9	7.0	7.2	6.9	7.0	7.1	6.9	7.0
29	7.0	7.0	7.0	7.1	7.0	7.0	7.2	6.9	7.0	7.2	6.8	7.0
30	7.0	7.0	7.0	7.2	7.0	7.1	7.1	7.0	7.0	7.3	6.8	7.0
31	---	---	---	7.2	7.0	7.1	7.1	7.0	7.0	---	---	---
MONTH	7.2	6.4	6.9	7.3	6.9	7.1	7.2	6.7	6.9	7.4	6.8	7.1
YEAR	7.4	6.4	6.8									

BEST COPY AVAILABLE

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.6	17.0	17.3	9.7	8.7	9.1				---	---	---
2	17.7	17.1	17.4	9.7	8.8	9.3				---	---	---
3	18.8	17.6	18.1	9.8	9.4	9.6				---	---	---
4	18.4	17.1	18.1	9.8	8.5	9.3				.3	.1	.2
5	17.0	16.7	16.8	8.4	7.5	7.8				.3	.2	.3
6	17.8	16.5	17.1	8.1	7.2	7.8				.3	.2	.3
7	17.4	16.5	17.1	7.1	6.3	6.6				.5	.3	.4
8	16.5	16.2	16.3	6.6	5.7	6.2				.3	.2	.2
9	16.9	16.1	16.4	7.5	6.5	6.9				.2	.1	.2
10	16.1	14.9	15.6	7.4	6.9	7.2				.2	.1	.2
11	15.1	14.5	14.8	7.5	6.9	7.1				.2	.1	.2
12	15.1	14.5	14.8	7.1	6.8	7.0				.2	.1	.2
13	15.7	15.0	15.4	7.0	6.5	6.7				.2	.1	.2
14	16.7	15.6	16.0	6.6	5.8	6.2				.2	.1	.2
15	15.7	14.0	14.8	6.1	5.6	5.9				.2	.1	.2
16	14.3	13.6	14.0	6.1	5.0	5.4				.3	.2	.2
17	14.0	13.6	13.8	5.3	4.2	4.9				.3	.2	.2
18	14.6	13	13.9	4.4	3.8	4.2				.2	.2	.2
19	13.1	13.1	13.7	4.2	3.8	4.0				.2	.1	.2
20	1	[illegible]	12.7	3.9	2.9	3.3				.2	.1	.1
21	12.1	11.2	11.7	4.1	3.1	3.6				.3	.1	.2
22	11.5	10.6	11.0	3.8	3.3	3.6				.2	.1	.2
23	11.2	10.5	10.8	3.9	3.3	3.7				.2	.2	.2
24	11.2	10.5	11.0	4.3	3.7	3.9				.2	.1	.2
25	11.1	10.1	10.6	4.4	4.1	4.3				.2	.1	.2
26	10.5	9.8	10.1	4.0	3.6	3.9				.2	.1	.2
27	10.5	9.8	10.1	3.9	3.3	3.6				.2	.1	.1
28	10.3	9.6	9.9	---	---	---				.1	.1	.0
29	10.2	9.1	9.9	---	---	---				.1	.1	.0
30	9.6	8.7	9.1	---	---	---				.1	.1	0
31	9.6	8.7	9.1	---	---	---				.1	.1	.0
MONTH	18.8	8.7	14.0	9.8	2.9	6.0				.5	.1	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.1	.1	.0	.8	.2	.5	2.0	.7	1.4	8.1	7.1	7.7
2	.1	.1	.0	.8	.2	.4	3.1	1.3	2.1	7.7	6.9	7.2
3	.1	.1	.0	.8	.2	.4	3.5	2.1	2.8	7.5	6.3	7.0
4	.1	.1	.0	1.0	.2	.5	3.4	2.2	2.8	7.4	6.9	7.2
5	.1	.1	.0	.9	.2	.5	2.8	2.5	2.6	7.4	6.6	6.8
6	.2	.1	.1	1.4	.5	.9	2.7	1.4	2.3	7.8	6.4	7.1
7	.2	.1	.1	1.4	.5	.8	1.5	.9	1.2	9.0	7.3	8.1
8	.1	.1	.0	1.0	.3	.6	1.5	1.4	1.5	8.9	8.4	8.7
9	.1	.1	.0	.6	.2	.4	1.9	1.3	1.6	9.0	8.6	8.9
10	.1	.1	.1	1.0	.2	.4	1.9	1.5	1.7	8.9	8.3	8.6
11	.2	.1	.1	.7	.3	.4	2.6	1.9	2.2	9.6	8.4	9.0
12	.3	.1	.2	.9	.2	.4	3.5	2.4	2.9	9.7	9.3	9.5
13	.4	.2	.3	.4	.1	.3	4.2	3.2	3.7	10.2	9.3	9.7
14	.4	.3	.3	.1	.0	.0	5.1	4.1	4.6	9.7	9.6	9.6
15	.5	.3	.4	.2	.0	.0	4.8	4.6	4.7	9.9	9.5	9.7
16	.7	.3	.4	1.3	.2	.7	4.8	3.8	4.3	9.7	9.3	9.5
17	.7	.3	.4	1.1	.6	.9	3.8	3.4	3.5	9.4	9.2	9.3
18	.5	.2	.4	.8	.4	.6	3.8	3.3	3.5	10.3	9.1	9.7
19	.9	.3	.6	.8	.3	.6	4.1	3.6	3.9	10.9	9.8	10.3
20	.8	.5	.6	.7	.5	.6	4.6	3.9	4.2	12.1	10.0	11.1
21	.9	.4	.6	.7	.4	.5	4.6	4.0	4.4	12.7	10.9	11.8
22	.9	.3	.6	.8	.5	.6	4.5	3.4	4.0	13.9	11.7	12.8
23	1.3	.4	.8	.7	.3	.5	5.1	3.7	4.4	15.1	13.1	14.0
24	.9	.7	.8	.8	.2	.4	5.4	4.8	5.0	15.4	14.2	14.9
25	1.1	.6	.8	1.0	.2	.5	5.5	4.7	5.1	15.7	14.7	15.2
26	.8	.2	.6	1.2	.1	.6	4.9	4.2	4.6	17.0	14.8	15.9
27	.8	.1	.4	1.3	.1	.7	6.2	4.5	5.3	17.0	15.7	16.4
28	.3	.1	.2	1.6	.2	.8	7.1	5.3	6.1	16.2	14.7	15.2
29	.7	.2	.5	.9	.4	.6	7.4	5.8	6.6	14.6	12.6	13.6
30	---	---	---	1.1	.2	.6	7.8	6.4	7.2	12.5	10.5	11.4
31	---	---	---	1.8	.5	1.2	---	---	---	10.9	10.1	10.6
MONTH	1.3	.1	.5	1.8	.0	.5	7.8	.7	3.5	17.0	6.3	10.5

BEST COPY AVAILABLE

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.9	10.7	10.8	19.6	17.9	18.8	21.9	21.4	21.7	23.3	22.0	22.5
2	11.3	10.9	11.1	21.0	18.9	20.0	23.1	21.1	21.9	22.8	21.6	22.1
3	11.9	11.1	11.5	21.7	19.7	21.0	23.8	22.2	23.0	21.6	21.0	21.3
4	12.7	11.8	12.4	22.0	20.6	21.3	24.4	22.9	23.5	21.8	20.8	21.2
5	13.6	12.4	13.0	21.7	21.2	21.3	24.4	23.3	23.8	21.9	20.8	21.2
6	14.4	13.2	13.8	21.6	20.8	21.2	24.5	23.5	23.9	21.1	19.8	20.6
7	15.1	14.1	14.6	21.2	20.3	20.6	24.1	23.5	23.7	---	---	---
8	---	---	---	20.6	20.0	20.3	25.0	23.5	24.1	---	---	---
9	---	---	---	20.2	19.3	19.7	24.3	23.8	24.1	---	---	---
10	---	---	---	20.1	18.8	19.4	23.7	23.3	23.5	---	---	---
11	---	---	---	20.1	18.7	19.4	24.1	23.1	23.5	20.6	19.5	20.0
12	---	---	---	21.1	19.3	20.2	24.4	23.4	23.8	20.5	19.4	19.9
13	---	---	---	21.0	19.7	20.4	23.8	23.5	23.7	19.4	18.7	19.1
14	---	---	---	21.6	19.6	20.6	24.1	23.5	23.7	20.0	18.7	19.3
15	---	---	---	21.8	20.7	21.3	24.1	23.6	23.8	19.1	18.2	18.7
16	18.9	17.3	18.2	21.6	20.8	21.2	24.2	23.2	23.6	18.9	17.7	18.2
17	19.3	18.0	18.7	22.0	20.5	21.3	24.6	23.4	23.8	19.0	17.3	18.0
18	19.1	18.3	18.5	21.7	21.1	21.3	24.2	23.1	23.5	18.7	17.4	18.0
19	20.2	18.3	19.2	22.5	20.8	21.6	23.5	22.7	23.1	18.3	17.3	17.8
20	20.4	19.0	19.8	23.2	21.5	22.2	23.2	22.5	22.8	18.6	17.6	18.1
21	20.4	19.2	19.8	23.3	22.0	22.5	23.7	22.1	22.7	18.3	16.9	17.8
22	19.9	18.5	19.4	23.4	22.0	22.6	24.0	22.2	23.0	17.6	16.6	17.1
23	20.0	18.8	19.4	22.6	22.3	22.5	23.0	22.1	22.5	18.2	16.8	17.5
24	19.5	18.5	19.0	23.6	22.1	22.7	22.4	21.9	22.1	19.0	17.7	18.3
25	18.6	17.1	17.8	23.1	22.1	22.6	22.8	21.5	22.0	18.9	18.0	18.4
26	17.3	15.2	16.2	22.6	21.7	22.0	23.1	21.7	22.3	18.5	17.4	18.1
27	15.6	14.8	15.2	22.2	21.3	21.8	23.1	21.8	22.4	17.4	16.4	16.9
28	17.5	15.5	16.5	21.5	20.8	21.1	23.2	22.2	22.6	17.5	16.1	16.8
29	18.1	17.5	17.8	22.3	20.9	21.5	22.9	22.3	22.6	17.4	16.6	16.9
30	18.7	17.8	18.2	22.5	21.5	21.8	23.4	22.6	22.9	17.6	16.0	16.7
31	---	---	---	22.6	21.5	22.0	23.0	22.5	22.8	---	---	---
MONTH	20.4	10.7	16.5	23.6	17.9	21.0	25.0	21.1	23.0	23.3	16.0	19.0
YEAR	25.0	.0	10.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.0	9.0	9.4	11.8	11.2	11.4				---	---	---
2	9.4	9.0	9.2	11.7	11.0	11.3				---	---	---
3	9.4	8.6	8.9	11.3	11.0	11.1				---	---	---
4	9.2	8.6	8.9	11.2	10.7	11.0				13.7	13.3	13.5
5	9.0	8.8	9.0	12.3	11.3	11.8				13.5	13.1	13.4
6	9.3	8.7	8.9	12.7	12.3	12.6				13.6	13.4	13.5
7	9.7	9.0	9.2	13.0	12.4	12.7				13.5	13.4	13.5
8	10.0	9.1	9.5	13.0	12.0	12.6				13.6	13.5	13.6
9	9.9	9.3	9.6	12.1	11.6	11.9				13.7	13.6	13.7
10	10.3	9.4	9.8	12.0	11.5	11.7				13.9	13.7	13.8
11	10.5	9.6	10.0	12.0	11.5	11.9				13.8	13.7	13.7
12	10.3	9.8	10.0	12.6	12.0	12.2				14.0	13.8	13.9
13	10.1	9.6	9.9	12.6	12.1	12.4				14.2	14.1	14.1
14	10.3	9.5	9.9	12.3	11.9	12.1				14.2	14.0	14.0
15	10.5	9.9	10.2	12.3	11.9	12.2				14.1	14.0	14.0
16	10.9	10.1	10.4	12.5	11.9	12.2				14.1	13.9	14.0
17	10.5	10.0	10.3	12.7	12.2	12.5				14.1	13.9	14.0
18	10.4	9.8	10.1	12.7	12.3	12.4				14.1	14.0	14.0
19	10.4	9.9	10.1	12.6	12.3	12.5				14.1	13.9	13.9
20	11.0	10.0	10.4	12.7	12.3	12.5				14.0	14.0	14.0
21	11.2	10.6	10.8	12.7	12.3	12.4				14.1	14.0	14.1
22	11.4	10.8	11.0	13.0	12.6	12.9				14.3	14.2	14.2
23	11.2	10.7	11.0	12.9	12.7	12.8				14.2	14.1	14.2
24	10.9	10.5	10.8	12.8	12.5	12.7				14.3	14.1	14.2
25	11.4	10.6	11.1	12.9	12.3	12.5				14.1	13.9	14.0
26	11.4	11.1	11.2	13.5	13.1	13.4				14.2	14.0	14.1
27	11.5	10.9	11.2	13.4	12.9	13.2				14.2	14.1	14.2
28	11.6	10.8	11.2	---	---	---				14.2	14.0	14.1
29	11.6	10.8	11.2	---	---	---				14.3	14.2	14.2
30	11.8	11.1	11.4	---	---	---				14.3	14.2	14.2
31	11.8	10.5	11.3	---	---	---				14.3	14.1	14.1
MONTH	11.8	8.6	10.2	13.5	10.7	12.3				14.3	13.1	13.9

BEST COPY AVAILABLE

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.3	14.1	14.2	14.4	14.1	14.2	14.5	14.1	14.3	12.9	12.7	12.8
2	14.4	14.4	14.4	14.5	14.1	14.3	14.3	13.9	14.1	13.1	12.8	13.0
3	14.5	14.3	14.5	14.6	14.2	14.4	14.1	13.9	14.0	13.2	12.6	12.9
4	14.3	14.2	14.3	14.6	14.3	14.4	14.3	14.0	14.1	12.6	12.3	12.5
5	14.4	14.2	14.3	14.6	14.2	14.4	14.2	14.0	14.1	12.9	12.4	12.8
6	14.4	14.2	14.3	14.2	14.0	14.1	15.3	14.0	14.5	13.0	12.6	12.8
7	14.5	14.4	14.4	14.4	14.0	14.1	15.4	15.1	15.3	12.8	12.2	12.6
8	14.6	14.5	14.6	14.5	14.1	14.3	15.1	14.9	15.0	12.4	12.1	12.3
9	14.7	14.5	14.6	14.5	14.1	14.3	15.0	14.7	14.9	12.2	11.9	12.1
10	14.8	14.5	14.7	14.7	14.3	14.5	14.7	14.4	14.6	12.4	12.1	12.2
11	14.5	14.4	14.4	14.5	14.2	14.4	14.4	14.1	14.3	12.3	11.9	12.1
12	14.4	14.3	14.4	14.6	14.2	14.4	14.1	13.9	14.0	11.9	11.6	11.7
13	14.5	14.4	14.4	14.5	14.3	14.4	13.9	13.7	13.9	12.0	11.8	11.9
14	14.4	14.3	14.4	14.5	14.3	14.4	13.8	13.5	13.6	12.0	11.8	11.9
15	14.4	14.3	14.3	14.3	14.2	14.3	13.7	13.5	13.6	12.0	11.8	11.9
16	14.6	14.5	14.5	14.3	14.1	14.3	13.7	13.6	13.7	12.1	11.9	12.0
17	14.6	14.5	14.6	14.2	14.1	14.2	14.1	13.7	14.0	12.2	12.0	12.1
18	14.6	14.5	14.5	14.3	14.1	14.2	14.2	14.1	14.2	12.1	11.7	12.0
19	14.6	14.5	14.5	14.2	14.0	14.1	14.2	14.0	14.1	11.7	11.5	11.6
20	14.4	14.2	14.3	14.5	14.2	14.3	14.0	13.6	13.8	11.5	11.1	11.3
21	14.4	14.3	14.3	14.7	14.5	14.7	13.8	13.6	13.7	11.3	11.0	11.2
22	14.5	14.3	14.4	14.7	14.6	14.6	14.1	13.8	14.0	11.2	10.7	11.0
23	14.3	14.2	14.3	14.8	14.6	14.7	13.9	13.3	13.7	10.7	10.0	10.5
24	14.2	14.0	14.1	15.0	14.8	14.9	13.5	13.1	13.3	10.4	10.0	10.2
25	14.3	14.1	14.2	15.0	14.8	14.9	13.8	13.0	13.3	10.3	9.9	10.1
26	14.6	14.2	14.4	14.9	14.4	14.7	14.1	13.8	13.9	10.1	9.6	9.9
27	14.9	14.5	14.7	14.9	14.5	14.7	14.0	13.4	13.7	10.1	9.6	9.9
28	14.6	14.2	14.5	14.8	14.4	14.6	13.7	13.1	13.4	10.3	9.9	10.2
29	14.2	14.0	14.0	14.6	14.2	14.5	13.5	13.0	13.3	10.9	10.3	10.5
30	---	---	---	14.5	14.1	14.3	13.3	12.7	13.1	12.4	10.9	11.8
31	---	---	---	14.5	14.2	14.3	---	---	---	12.7	12.4	12.5
MONTH	14.9	14.0	14.4	15.0	14.0	14.4	15.4	12.7	14.0	13.2	9.6	11.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.8	12.6	12.7	9.9	9.5	9.7	9.2	8.2	8.7	8.2	7.2	7.7
2	12.5	12.1	12.3	9.7	9.3	9.5	9.5	8.6	9.0	8.3	7.4	7.8
3	12.3	12.0	12.2	9.3	8.8	9.0	9.1	8.4	8.7	8.3	7.4	7.8
4	12.0	11.6	11.8	9.1	8.6	8.9	9.0	8.2	8.5	8.3	7.4	7.8
5	11.7	11.3	11.5	8.8	8.6	8.6	8.9	8.0	8.4	8.5	7.5	7.9
6	11.3	10.7	11.1	9.0	8.5	8.8	8.8	7.9	8.3	8.8	7.8	8.2
7	10.7	10.5	10.6	8.9	8.8	8.9	8.5	7.9	8.1	---	---	---
8	---	---	---	9.1	8.8	9.0	8.5	7.7	8.0	---	---	---
9	---	---	---	9.5	9.0	9.3	8.2	7.6	7.8	---	---	---
10	---	---	---	9.5	9.2	9.3	8.2	7.5	7.8	---	---	---
11	---	---	---	9.3	8.9	9.2	8.2	7.5	7.8	8.9	8.0	8.4
12	---	---	---	9.1	8.8	9.0	8.2	7.4	7.7	8.8	7.9	8.4
13	---	---	---	9.3	8.9	9.1	8.2	7.4	7.8	9.0	8.3	8.5
14	---	---	---	9.1	8.7	9.0	8.5	7.6	8.0	8.8	8.1	8.4
15	---	---	---	9.0	8.5	8.8	8.4	7.8	8.1	8.4	8.0	8.2
16	9.4	9.0	9.2	8.8	8.5	8.7	8.6	7.8	8.2	9.0	8.0	8.5
17	9.2	8.9	9.0	8.9	8.4	8.7	8.6	7.9	8.3	9.2	8.2	8.7
18	9.0	8.8	9.0	---	---	---	8.4	7.8	8.1	9.1	8.3	8.7
19	9.1	8.9	9.0	---	---	---	8.3	7.6	7.9	9.1	8.3	8.7
20	9.1	8.9	9.1	8.8	7.8	8.2	8.2	7.5	7.8	9.0	8.4	8.6
21	9.5	9.0	9.2	8.7	8.0	8.3	9.0	7.6	8.2	9.2	8.4	8.8
22	9.5	9.0	9.2	8.9	8.0	8.4	8.7	7.7	8.2	9.5	8.7	9.1
23	9.4	8.8	9.1	8.7	8.1	8.4	7.9	7.6	7.8	9.4	8.6	9.0
24	9.3	9.0	9.1	8.8	8.0	8.3	8.4	7.5	7.9	9.4	8.4	8.8
25	9.3	9.0	9.1	8.8	7.9	8.4	8.7	7.8	8.3	9.2	8.5	8.8
26	10.7	9.2	10.0	8.8	7.9	8.4	8.8	7.9	8.3	8.8	8.2	8.5
27	10.9	10.6	10.7	8.7	7.7	8.2	8.7	7.9	8.2	9.4	8.2	8.8
28	10.7	10.0	10.3	8.8	8.0	8.4	8.6	7.6	8.0	9.4	8.4	8.9
29	10.1	9.8	10.0	9.1	8.3	8.6	8.5	7.5	7.9	9.4	8.4	8.8
30	9.9	9.6	9.8	9.1	8.2	8.7	8.4	7.6	7.9	9.6	8.2	8.9
31	---	---	---	9.0	8.2	8.6	7.7	7.3	7.6	---	---	---
MONTH	12.8	8.8	10.2	9.9	7.7	8.8	9.5	7.3	8.1	9.6	7.2	8.5
YEAR	15.4	7.2	11.5									

BEST COPY AVAILABLE

01049373 MILL STREAM AT WINTHROP, ME

LOCATION.--Lat 44°18'24", long 69°58'18", Kennebec County, Hydrologic Unit 01030003, on right bank 500 ft downstream from bridge on Main Street, at Winthrop.

DRAINAGE AREA.--32.7 mi^2.

PERIOD OF RECORD.--October 1977 to current year.

REVISED RECORDS.--ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 176.42 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. No gage-height reocrd May 30 to June 4. Some regulation at low flow by Maranacook Lake Outlet dam 0.3 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--7 years 61.2 ft ^{3}/s (25.42 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 671 ft^3/s June 2, 1984, gage height, 4.76 ft, from floodmarks; minimum, 1.0 ft^3/s Dec. 19, 1978, gage height, 0.99 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 671 ft^3/s June 2, gage height, 4.76 ft, from floodmarks; minimum, 2.2 ft^3/s Oct. 29, 30, gage height, 1.11 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.2	193	107	34	163	112	117	425	112	23	13
2	4.1	3.9	176	99	34	150	116	109	650	101	23	11
3	6.5	5.0	196	92	34	139	124	119	560	89	22	10
4	5.8	5.9	187	85	36	127	137	154	480	81	21	12
5	7.1	6.1	146	79	37	116	164	153	453	72	25	13
6	9.4	3.9	136	74	37	111	384	144	490	73	35	11
7	6.5	3.8	231	72	37	102	399	124	423	86	28	10
8	6.3	9.3	259	71	37	94	370	114	379	79	21	11
9	6.0	10	236	65	37	87	341	112	339	64	18	10
10	4.9	7.9	215	63	37	80	315	107	278	55	18	10
11	5.6	6.3	189	63	38	76	294	100	233	52	18	11
12	7.1	5.7	172	59	39	69	306	107	197	51	17	7.9
13	9.2	5.4	207	56	38	65	325	130	178	48	16	8.7
14	5.8	5.4	310	55	38	72	304	145	178	44	16	9.4
15	5.0	5.0	335	53	42	69	277	161	148	42	14	9.1
16	4.2	6.0	322	50	55	65	267	164	123	38	15	8.8
17	5.6	17	333	49	66	66	270	184	108	39	15	8.6
18	5.5	25	331	47	72	66	304	160	95	48	15	8.7
19	4.9	26	307	46	73	76	272	138	89	42	12	8.4
20	5.8	27	271	45	73	90	262	126	80	46	13	8.2
21	4.6	36	235	45	77	104	210	115	75	45	12	7.4
22	4.7	49	206	43	76	133	193	103	78	37	12	7.9
23	4.3	51	189	42	75	160	219	94	65	31	13	8.1
24	3.7	53	166	41	78	165	194	90	55	28	10	7.4
25	3.7	89	146	42	92	163	196	79	60	24	9.1	7.1
26	3.9	127	130	39	153	153	190	74	110	23	9.1	5.7
27	3.8	215	120	39	174	145	168	68	135	28	12	4.4
28	3.6	225	118	38	170	137	151	61	152	45	16	4.8
29	2.7	215	125	38	172	130	139	71	138	36	15	5.0
30	2.5	208	121	37	---	117	126	110	125	28	16	4.6
31	2.8	---	115	37	---	113	---	225	---	24	15	---
TOTAL	168.0	1455.8	6423	1771	1951	3403	7129	3758	6899	1611	524.2	262.2
MEAN	5.42	48.5	207	57.1	67.6	110	238	121	230	52.0	16.9	8.74
MAX	9.4	225	335	107	174	165	399	225	650	112	35	13
MIN	2.5	3.2	115	37	34	65	112	61	55	23	9.1	4.4
CFSM	.17	1.48	6.33	1.75	2.07	3.36	7.28	3.70	7.03	1.59	.52	.27
IN.	.19	1.66	7.31	2.01	2.23	3.87	8.11	4.28	7.85	1.83	.60	.30

CAL YR 1983 TOTAL 31481.8 MEAN 86.3 MAX 448 MIN 2.5 CFSM 2.64 IN. 35.81
WTR YR 1984 TOTAL 35365.2 MEAN 96.6 MAX 650 MIN 2.5 CFSM 2.95 IN. 40.23

BEST COPY AVAILABLE

01049400 COBBOSSEECONTEE LAKE AT EAST WINTHROP, ME

LOCATION.--Lat 44°18'57", long 69°53'48", Kennebec County, Hydrologic Unit 01030003, in Augusta Water District pumping station on Welch Point, on town road at East Winthrop.

DRAINAGE AREA.--131 mi^2.

PERIOD OF RECORD.--September 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. No gage-height record May 30 to July 31.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 169.46 ft June 3, 1984; minimum daily, 162.90 ft Nov. 5, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height, 169.46 ft June 3; minimum daily, 163.91 ft Oct. 23, Nov 1-3.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165.56	163.91	167.14	165.70	165.69	166.93	164.68	167.23	168.61	167.07	166.61	166.54
2	165.46	163.91	167.14	165.52	165.67	166.84	164.71	167.20	169.23	167.00	166.59	166.52
3	165.35	163.91	167.08	165.34	165.66	166.74	164.75	167.19	169.46	167.00	166.58	166.50
4	165.23	163.95	166.98	165.19	165.68	166.62	164.87	167.17	169.31	166.98	166.56	166.52
5	165.12	164.18	166.92	165.20	165.72	166.49	165.27	167.23	169.17	166.96	166.55	166.53
6	165.02	164.41	166.82	165.25	165.78	166.38	165.85	167.20	169.07	166.95	166.53	166.48
7	164.87	164.49	167.07	165.29	165.78	166.24	165.98	167.14	168.93	166.96	166.51	166.41
8	164.70	164.53	167.18	165.33	165.79	166.08	166.55	167.08	168.73	167.00	166.49	166.35
9	164.53	164.56	167.21	165.36	165.78	165.92	167.25	167.06	168.50	167.10	166.47	166.27
10	164.37	164.59	167.20	165.41	165.77	165.76	167.57	167.07	168.25	167.10	166.46	166.21
11	164.31	164.71	167.16	165.48	165.76	165.58	167.65	167.09	168.00	167.10	166.44	166.16
12	164.28	164.84	167.10	165.51	165.76	165.40	167.71	167.17	167.75	167.06	166.43	166.17
13	164.37	164.90	167.22	165.53	165.76	165.22	167.77	167.28	167.50	167.03	166.43	166.10
14	164.37	164.93	167.63	165.55	165.76	165.15	167.84	167.31	167.56	166.99	166.43	166.05
15	164.29	164.96	167.87	165.57	165.82	165.02	167.87	167.40	167.58	166.97	166.45	165.99
16	164.21	165.07	167.95	165.59	165.91	164.86	167.86	167.39	167.59	166.93	166.44	165.94
17	164.15	165.28	167.96	165.60	165.94	164.73	167.84	167.35	167.59	166.90	166.43	165.86
18	164.08	165.36	167.91	165.61	165.95	164.60	167.75	167.40	167.60	166.80	166.41	165.79
19	164.01	165.41	167.82	165.62	165.95	164.56	167.67	167.46	167.60	166.78	166.41	165.72
20	163.94	165.46	167.69	165.64	165.97	164.53	167.58	167.52	167.60	166.76	166.55	165.64
21	163.92	165.60	167.55	165.64	166.00	164.50	167.45	167.55	167.60	166.73	166.56	165.54
22	163.92	165.81	167.39	165.65	166.02	164.57	167.30	167.57	167.60	166.71	166.56	165.41
23	163.91	165.86	167.29	165.65	166.03	164.67	167.15	167.59	167.58	166.70	166.57	165.29
24	163.93	165.90	167.10	165.66	166.07	164.73	167.02	167.61	167.57	166.66	166.60	165.18
25	163.95	166.20	166.92	165.70	166.17	164.74	167.10	167.61	167.56	166.65	166.60	165.07
26	163.95	166.61	166.70	165.71	166.48	164.74	167.13	167.60	167.55	166.64	166.60	164.96
27	163.95	166.75	166.49	165.71	166.74	164.73	167.19	167.60	167.60	166.64	166.59	164.82
28	163.95	166.86	166.29	165.70	166.86	164.71	167.23	167.58	167.41	166.63	166.57	164.67
29	163.94	166.98	166.21	165.69	166.97	164.68	167.25	167.66	167.26	166.63	166.57	164.53
30	163.92	167.10	166.02	165.67	---	164.68	167.25	167.98	167.13	166.62	166.56	164.39
31	163.92	---	165.88	165.70	---	164.67	---	168.18	---	166.62	166.55	---
MEAN	164.37	165.23	167.13	165.54	165.97	165.32	166.90	167.40	168.02	166.86	166.52	165.79
MAX	165.56	167.10	167.96	165.71	166.97	166.93	167.87	168.18	169.46	167.10	166.61	166.54
MIN	163.91	163.91	165.88	165.19	165.66	164.50	164.68	167.06	167.13	166.62	166.41	164.39

CAL YR 1983 MEAN 166.58 MAX 168.15 MIN 163.91
WTR YR 1984 MEAN 166.25 MAX 169.46 MIN 163.91

BEST COPY AVAILABLE

01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME

LOCATION.--Lat 44°13'44", long 69°46'44", Kennebec County, Hydrologic Unit 01030003, on left bank 300 ft upstream from Winter Street bridge in Gardiner, 0.4 mi upstream from mouth, and 0.8 mi downstream from Gardiner Water District dam.

DRAINAGE AREA.--217 mi^2.

PERIOD OF RECORD.--June 1890 to September 1964, October 1976 to current year.

REVISED RECORDS.--WSP 541: 1916-20. WSP 1201: Drainage area. WSP 1231: 1910-15. WSP 1701: 1956-59.

GAGE.--Water-stage recorder. Datum of gage is 20.00 ft National Geodetic Vertical Datum of 1929. June 16, 1890, to Sept. 30, 1964, nonrecording gage at site 0.8 mi upstream at different datum.

REMARKS. Records good except those below 25 ft^3/s, which are fair. Flow regulated by Cobbosseecontee Lake (station 01049400) and several other lakes upstream.

AVERAGE DISCHARGE.--82 years (water years 1891-64, 1977-84), 348 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,020 ft^3/s Mar. 21, 1936; minimum, leakage only when all gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,580 ft^3/s June 1, gage height, 9.41 ft; minimum daily, 23 ft^3/s Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	358	113	1370	1240	259	1400	878	532	3460	609	110	62
2	377	124	1240	1200	256	1360	923	506	3410	586	96	78
3	358	122	1180	917	259	1270	941	469	3330	407	104	110
4	346	119	1160	487	381	1220	953	873	3000	285	99	224
5	374	133	1150	272	542	1170	958	1150	2760	282	102	228
6	386	183	1130	268	590	1010	2170	1100	2430	291	39	225
7	450	227	1700	263	543	970	2150	1060	2280	378	36	227
8	468	232	1850	263	492	985	1830	801	2110	473	26	206
9	493	224	1630	261	452	984	1250	766	1920	359	26	223
10	520	189	1470	262	421	982	788	761	1820	331	23	226
11	399	249	1420	269	391	977	830	714	1710	330	32	243
12	268	330	1370	263	326	962	931	809	1510	310	35	242
13	241	387	1420	260	288	935	1160	1300	1170	280	34	245
14	194	307	2410	250	300	954	1350	1380	971	260	31	247
15	235	362	2390	252	346	938	1450	1410	545	259	31	243
16	236	514	2290	252	748	930	1460	1390	276	263	46	268
17	281	713	2120	252	948	964	1520	1240	238	260	70	288
18	306	685	2070	247	897	983	1500	1010	213	250	59	295
19	298	605	1970	249	835	1040	1450	826	222	277	57	293
20	267	415	1620	245	831	1110	1450	508	298	243	56	303
21	224	297	1400	243	905	1150	1420	277	329	245	56	335
22	229	733	1300	239	870	1410	1380	238	352	248	56	358
23	237	897	1330	240	802	1660	1200	246	317	249	46	415
24	234	983	1340	243	794	1570	1140	389	295	255	46	446
25	225	1430	1270	248	869	1460	1410	435	439	257	46	444
26	152	1920	1240	248	1430	1270	1460	393	1080	252	46	444
27	114	1730	1200	249	1460	1160	1320	368	1220	251	46	346
28	110	1660	1160	244	1340	1150	992	449	920	250	45	435
29	102	1500	1250	246	1330	1110	586	1090	693	247	45	710
30	108	1470	1290	249	---	1010	496	1980	613	156	45	914
31	118	---	1280	260	---	841	---	2500	---	113	45	---
TOTAL	8708	18903	47020	10681	19905	34935	37346	26970	39931	9256	1634	9323
MEAN	281	630	1517	345	686	1127	1245	870	1331	299	52.7	311
MAX	520	1920	2410	1240	1460	1660	2170	2500	3460	609	110	914
MIN	102	113	1130	239	256	841	496	238	213	113	23	62
CFSM	1.29	2.90	6.99	1.59	3.16	5.19	5.74	4.01	6.13	1.38	.24	1.43
IN.	1.49	3.24	8.06	1.83	3.41	5.99	6.40	4.62	6.85	1.59	.28	1.60

CAL YR 1983 TOTAL 230915.83 MEAN 633 MAX 3180 MIN .51 CFSM 2.92 IN. 39.59
WTR YR 1984 TOTAL 264612 MEAN 723 MAX 3460 MIN 23 CFSM 3.33 IN. 45.36

BEST COPY AVAILABLE

01049550 TOGUS STREAM AT TOGUS, MAINE

LOCATION.--Lat 44°15'57", long 69°41'55", Kennebec County, Hydrologic Unit 01030003, on right bank 100 ft downstream from mouth of Chase Meadow Stream and 600 ft downstream from State Route 226 bridge, 1.5 mi northeast of Chelsea.

DRAINAGE AREA.--23.7 mi^2.

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 131.28 ft revised, National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 850 ft^3/s Apr. 25, 1983, gage height, 6.92 ft; minimum discharge 0.79 ft^3/s Sept. 30, 1984, gage height, 2.60 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 25	1830	471	5.69	Apr. 6	0900	491	5.77
Dec. 7	0700	259	4.72	Jun. 1	0200	* 729	6.44
Dec. 14	1700	511	5.85				

Minimum discharge, 0.79 ft^3/s Sept. 30, gage height, 2.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.8	155	54	20	122	99	66	678	26	4.9	2.4
2	1.9	2.1	136	58	19	105	104	61	533	23	4.9	2.2
3	1.9	1.9	121	53	19	91	112	56	429	20	4.7	2.2
4	1.9	3.6	108	48	23	80	117	84	327	17	4.4	2.1
5	1.9	36	102	46	38	72	154	96	262	18	4.2	2.1
6	2.1	42	98	43	49	69	463	56	210	21	4.2	2.3
7	2.1	31	239	40	46	64	357	33	177	24	4.2	2.4
8	2.0	24	186	38	42	59	267	33	158	34	4.3	2.4
9	1.8	20	144	36	38	55	208	43	141	30	3.9	2.3
10	1.7	18	126	34	35	50	177	39	123	24	3.6	2.2
11	1.8	52	110	33	32	46	158	36	106	21	3.2	2.7
12	1.8	62	98	31	34	42	148	68	88	22	3.2	3.1
13	8.9	54	278	30	36	39	138	107	78	24	3.3	1.8
14	4.9	44	493	29	38	45	128	101	71	22	3.3	2.5
15	4.4	39	408	28	87	45	120	100	65	16	4.9	2.1
16	7.5	91	304	27	113	44	132	86	58	14	3.8	1.7
17	4.5	121	236	26	92	59	154	78	38	12	3.5	1.3
18	3.2	90	194	25	82	58	136	72	25	12	3.3	1.3
19	3.4	73	164	24	77	74	139	64	25	12	3.1	1.2
20	3.5	64	137	23	93	93	127	61	24	9.8	4.9	1.1
21	3.5	110	116	23	91	102	118	58	22	11	3.5	1.2
22	3.9	137	102	22	79	151	106	50	19	17	3.1	1.0
23	4.5	117	94	22	73	162	95	46	17	14	3.2	1.0
24	5.8	112	84	21	86	152	105	44	14	10	3.3	1.1
25	5.9	332	76	31	105	141	135	40	27	7.7	3.0	.98
26	5.5	400	69	29	203	129	116	37	43	6.6	2.8	.99
27	3.9	271	63	27	150	116	100	41	42	6.5	2.7	.91
28	2.1	206	58	25	121	108	87	39	35	8.1	2.9	.94
29	1.8	193	93	24	131	102	78	123	31	6.6	2.9	.88
30	1.6	182	82	21	---	94	71	273	28	5.9	2.7	.85
31	1.8	---	70	20	---	91	---	454	---	5.1	2.7	---
TOTAL	103.4	2930.4	4744	1002	2052	2660	4449	2545	3894	500.3	112.6	51.25
MEAN	3.34	97.7	153	32.3	70.8	85.8	148	82.1	130	16.1	3.63	1.71
MAX	8.9	400	493	64	203	162	463	454	678	34	4.9	3.1
MIN	1.6	1.8	58	20	19	39	71	33	14	5.1	2.7	.85
CFSM	.14	4.12	6.46	1.36	2.99	3.62	6.24	3.46	5.49	.68	.15	.07
IN.	.16	4.60	7.45	1.57	3.22	4.18	6.98	3.99	6.11	.79	.18	.08

CAL YR 1983 TOTAL 25008.4 MEAN 68.5 MAX 721 MIN 1.6 CFSM 2.89 IN. 39.25
WTR YR 1984 TOTAL 25043.95 MEAN 68.4 MAX 678 MIN .85 CFSM 2.89 IN. 39.31

BEST COPY AVAILABLE

Reservoirs in Kennebec River Basin

01038500 BRASSUA LAKE on Moose River, 4 mi southwest of Rockwood, Maine, completed in 1928 for power, has usable capacity of 8,560,000,000 ft³ between elevations 1,043.0 ft and 1,073.0 ft. Elevation record furnished by Kennebec Water Power Co.

01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft³ between gage heights 1.0 ft and 8.0 ft. Gage-height record furnished by Kennebec Water Power Co.

01040500 MOOSEHEAD LAKE on Kennebec River (see p.62).

01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 mi downstream from east outlet of Moosehead Lake, completed in 1954 for power, has capacity of 850,000,000 ft³ in normal operating range between elevations 950.0 ft and 955.0 ft; total capacity of pond, 3,150,000,000 ft³ below elevation 955.0 ft. Elevation record furnished by Central Maine Power Co.

01042000 MOXIE POND on Moxie Stream, 4.8 mi east of The Forks, Maine, used for power, has usable capacity of 640,000,000 ft³ between gage heights 6.0 ft and 14.0 ft. Gage-height record furnished by Kennebec Water Power Co.

01043000 FLAGSTAFF LAKE on Dead River, in T. 3, R. 4, Maine, 0.8 mi upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 ft³ between elevations 1,110.0 ft and 1,146.0 ft. Elevation record furnished by Kennebec Water Power Co.

01045500 WYMAN POND on Kennebec River, 1.5 mi upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000,000 ft³ in normal operating range between elevations 465.0 ft and 485.0 ft; total capacity of pond, 9,080,000,000 ft³ below elevation 485.0 ft. Elevation record furnished by Central Maine Power Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1983	46	436	2902	487	7200	9050
OCT. 31	56	0	3006	266	3632	8990
NOV. 30	1730	0	3222	658	6758	9020
DEC. 31	5391	476	3150	496	9801	9100
JAN. 31, 1984	5823	0	2970	0	9010	8750
FEB. 29	4530	0	3006	0	7075	9050
MAR. 31	2126	0	2936	0	4128	8780
APR. 30	8278	732	3276	613	11602	9110
MAY 31	9238	1133	3366	712	12584	9050
JUNE 30	9152	980	3258	640	12123	9100
JULY 31	8075	842	3186	577	11009	8850
AUG. 31	6570	705	3168	532	8803	8920
SEPT. 30	5498	476	3610	242	6569	8660

NOTE.--Indian and Wyman Pond contents at 2400 on day shown. All others at 0700 on first day of following month.

BEST COPY AVAILABLE

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, Hydrologic Unit 01040001, on left bank 1.0 mi upstream from mouth and 1.6 mi north of Wentworth Location.

DRAINAGE AREA.--152 mi^2.

PERIOD OF RECORD.--July 1941 to current year.
Water-quality records: Water year 1954.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,275 ft, from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--43 years, 350 ft^3/s, (31.27 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,630 ft^3/s June 16, 1943, gage height, 10.66 ft, from rating curve extended above 4,300 ft^3/s; maximum gage height, 12.23 ft Feb. 21, 1981, (ice jam); minimum discharge, 6.8 ft^3/s Aug. 27, 28, 1949, Sept. 1, 1952, gage height, 0.81 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	1500	* 4610	8.15				

Minimum discharge, 15 ft^3/s Sept. 10, 11, gage height, 1.00 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	108	426	225	94	155	167	2410	2590	156	50	20
2	45	109	355	215	98	150	184	1410	1130	126	49	19
3	55	118	310	200	95	140	197	877	729	106	46	18
4	54	386	193	190	117	135	236	1270	595	95	42	19
5	108	1240	276	180	170	130	330	1410	508	292	39	19
6	400	1120	276	175	128	125	1260	981	407	325	36	18
7	276	716	406	165	108	120	2040	925	378	814	37	17
8	168	470	385	155	101	115	1480	909	413	816	51	17
9	135	473	278	150	96	110	802	1100	311	390	44	16
10	120	483	289	145	99	110	576	867	241	271	36	16
11	98	716	214	140	88	105	477	658	202	225	34	20
12	87	1290	195	135	84	98	570	978	171	669	33	64
13	132	734	564	130	92	94	989	1340	147	436	32	47
14	202	438	1810	125	97	95	1350	1100	169	268	31	40
15	222	357	1660	120	108	96	1550	947	232	216	37	38
16	149	335	1230	120	225	96	1160	697	168	193	42	32
17	116	830	763	115	500	108	1840	561	135	200	34	29
18	102	588	481	110	325	118	2290	468	117	165	30	26
19	93	401	421	105	230	130	2230	414	387	179	27	23
20	84	311	245	100	180	417	1830	377	252	142	26	22
21	79	623	230	100	160	686	1780	359	154	115	24	41
22	75	1070	220	98	150	734	1160	330	154	100	23	40
23	74	624	215	97	144	620	1160	343	123	90	23	31
24	110	455	210	94	153	364	1780	824	101	82	42	26
25	157	1180	210	103	162	255	2100	588	399	71	84	23
26	119	1250	205	116	186	218	1850	468	665	65	46	25
27	101	661	200	114	178	203	1880	789	692	66	33	40
28	91	498	260	109	170	187	2040	485	347	79	27	38
29	107	502	290	101	161	182	2140	1180	220	70	24	30
30	157	569	265	96	---	169	2300	3470	176	60	22	26
31	117	---	240	98	---	162	---	4310	---	56	22	---
TOTAL	3878	18655	13322	4126	4499	6427	39748	32845	12313	6938	1126	840
MEAN	125	622	430	133	155	207	1325	1060	410	224	36.3	28.0
MAX	400	1290	1810	225	500	734	2300	4310	2590	816	84	64
MIN	45	108	193	94	84	94	167	330	101	56	22	16
CFSM	.82	4.09	2.83	.88	1.02	1.36	8.72	6.97	2.70	1.47	.24	.18
IN.	.95	4.57	3.26	1.01	1.10	1.57	9.73	8.04	3.01	1.70	.28	.21

CAL YR 1983 TOTAL 131812 MEAN 361 MAX 3950 MIN 28 CFSM 2.38 IN. 32.26
WTR YR 1984 TOTAL 144717 MEAN 395 MAX 4310 MIN 16 CFSM 2.60 IN. 35.42

BEST COPY AVAILABLE

01053500 ANDROSCOGGIN RIVER AT ERROL, NH

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, Hydrologic Unit 01040001, on right bank 0.4 mi downstream from Errol Dam, 0.4 mi northeast of Errol, and 0.6 mi upstream from Clear Stream.

DRAINAGE AREA.--1,046 mi².

PERIOD OF RECORD.--Discharge: January 1905 to current year. Prior to 1922, published as "at Errol Dam." Water-quality records: Water years 1955, 1958-59.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft, National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft higher.

REMARKS.--Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (Reservoirs in Androscoggin River Basin), combined usable capacity, 28,100,000,000 ft³, with final regulation at Errol Dam. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--79 years, 1,910 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16,100 ft³/s May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 12,700 ft³/s June 1; minimum daily, 670 ft³/s Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1810	1740	1510	2070	2420	2020	1700	3060	12700	1710	2040	2070
2	1810	1750	1470	2070	2540	2090	1900	3090	10900	1710	1980	2100
3	1810	1740	1370	2150	2530	2140	1610	3550	9050	1700	1970	2130
4	1820	1690	1610	2270	2540	2130	2030	4160	7410	1700	1960	2160
5	1830	760	1710	2260	2530	2110	1520	4100	5640	1710	1970	2180
6	1850	670	1650	2240	2540	2180	871	4060	3360	1720	2060	2180
7	1850	1620	1380	2250	2530	2230	1700	3700	3160	1870	2010	2180
8	1830	1060	1400	2240	2530	2150	4260	3010	3170	2730	1960	2170
9	1830	1710	1450	2250	2540	2120	4510	2710	3150	2750	1950	2170
10	1830	1370	1520	2270	2530	2090	4380	1800	3050	2760	1940	2170
11	1830	1420	1670	2260	2520	2110	4260	1810	3050	2740	1930	2110
12	1810	2000	1820	2270	2510	2200	4150	1780	2950	2750	1930	2090
13	1760	2010	1500	2300	2550	2230	4000	2160	2700	2990	1960	2170
14	1690	1770	1300	2310	2510	2290	3740	3410	2820	3110	2000	2170
15	1650	1610	1370	2320	2510	2270	3380	4530	2660	3110	1990	2170
16	1680	1450	1900	2320	2510	2190	3580	4410	2370	3100	1970	2160
17	1720	1100	3060	2310	2520	2140	3860	3920	2000	3080	1990	2140
18	1750	964	3020	2310	2530	2130	3930	3490	2620	2790	2000	2130
19	1740	1220	3000	2330	2530	2120	4050	1700	1730	2220	1970	2130
20	1730	1440	2380	2320	2520	1940	4060	1700	2670	2210	1970	2150
21	1990	1410	2000	2330	2480	1260	4050	1750	2220	2190	2000	2160
22	1970	1300	2000	2330	2440	1040	4000	1800	2210	2190	1950	2170
23	1800	1660	1990	2300	2310	1230	3890	1380	2210	2210	1990	2160
24	1760	2010	2010	2340	2140	1260	3840	1910	2250	2190	2000	2180
25	1760	2010	2010	2310	2170	1500	3940	1920	2190	2200	1990	2160
26	1730	2050	1940	2300	2150	1890	4110	2010	2010	2240	1970	2140
27	1730	2580	2010	2320	2120	1880	3630	2170	2110	2280	1980	2140
28	1730	2960	2030	2330	2070	1900	2480	2910	2170	2200	1990	2120
29	1710	2530	2030	2320	2020	1870	1990	2940	2430	2190	2030	2110
30	1720	1900	2020	2320	---	1890	2420	3810	2250	2210	2050	1990
31	1740	---	2040	2330	---	1920	---	7730	---	2230	2060	---
TOTAL	55270	49504	58170	70650	70340	60550	97841	92980	109210	72790	61560	64260
MEAN	1783	1650	1876	2279	2426	1953	3261	2999	3640	2348	1986	2142
MAX	1990	2960	3060	2340	2550	2290	4510	7730	12700	3110	2060	2180
MIN	1650	670	1300	2070	2020	1040	871	1700	1730	1700	1930	1990

CAL YR 1983 TOTAL 698545 MEAN 1914 MAX 6810 MIN 670
WTR YR 1984 TOTAL 863125 MEAN 2358 MAX 12700 MIN 670

BEST COPY AVAILABLE

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, Hydrologic Unit 01040001, on right bank at Pulsifer Rips, 2.2 mi downstream from Dead River, and 4.0 mi upstream from Gorham.

DRAINAGE AREA.--1,361 mi².

PERIOD OF RECORD.--October 1913 to current year. October 1922 to February 1929, monthly discharge only, published in WSP 1301. Prior to October 1928, published as "at Berlin."

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi upstream at different datum.

REMARKS.--Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity, 28,100,000,000 ft³, with final regulation at Errol Dam 35 mi upstream. Diurnal fluctuation caused by powerplant 0.8 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--71 years, 2,474 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 20,000 ft³/s June 18, 1917, Apr. 30, 1923; minimum daily, 795 ft³/s Mar. 15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,100 ft³/s May 31, gage height, 9.41 ft; minimum daily, 1,770 ft³/s Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1890	1900	2730	2380	2470	2500	2420	5300	16900	2370	2300	2110
2	1910	1900	2390	2350	2620	2430	2210	4810	16000	2000	2060	2130
3	1910	1930	2120	2360	2710	2490	2480	4480	15200	1840	2080	2150
4	1910	2060	1780	2490	2790	2490	2380	5770	13800	1890	2060	2190
5	2010	3260	2330	2670	2840	2450	3330	6280	11700	2020	2030	2220
6	2280	2670	2310	2610	2800	2440	6790	5610	9560	2490	2080	2220
7	2250	2490	2600	2590	2780	2540	6680	5170	8100	2700	2130	2220
8	2090	2380	2370	2530	2740	2480	7640	4280	5420	4150	2090	2210
9	2020	1950	2090	2470	2720	2400	7260	4350	4010	3700	2010	2220
10	2000	2260	2220	2520	2710	2360	5920	3280	3860	3420	2030	2210
11	1960	2150	1980	2500	2710	2330	4090	2850	3720	3180	2040	2260
12	1960	3070	2110	2420	2750	2320	3970	3130	3500	3540	1990	2140
13	2090	3170	2780	2470	2760	2420	4460	4210	3510	3560	2030	2210
14	2130	2700	4500	2560	2800	2440	5090	5210	3400	3550	2060	2230
15	2020	2210	4400	2540	2840	2570	5590	6190	3290	3520	2100	2230
16	1890	2180	3720	2480	3180	2560	5630	5770	3060	3450	2090	2250
17	1910	2610	4160	2490	3320	2480	6990	5010	2670	3440	2070	2240
18	1930	2110	4110	2550	3250	2440	7720	4330	2180	3380	2070	2190
19	1910	1770	3840	2550	3150	2550	7680	2670	3000	2910	2070	2170
20	1870	1900	3330	2500	3150	2910	7300	2500	2310	2600	2020	2190
21	1900	2320	2500	2470	3150	3040	6950	2490	2670	2440	2060	2230
22	2220	2810	2440	2470	3060	2420	6200	2460	2430	2390	2030	2210
23	1980	2520	2480	2490	2940	2490	5750	2530	2410	2360	2020	2210
24	2000	2740	2460	2480	2720	2350	6050	2960	2380	2340	2080	2230
25	2060	4370	2620	2610	2750	2190	6700	2830	2970	2300	2070	2230
26	1980	5080	3290	2550	2930	2430	6390	2690	3260	2300	2030	2230
27	1950	3820	2770	2530	2770	2580	6210	2960	3020	2380	2030	2190
28	1910	4060	2360	2570	2560	2450	5130	3480	2720	2410	2020	2190
29	1920	3970	2520	2480	2530	2430	4250	4500	2680	2340	2030	2170
30	1900	3750	2370	2530	---	2360	4320	10400	2750	2330	2090	2180
31	1890	---	2310	2540	---	2370	---	16100	---	2310	2110	---
TOTAL	61650	82110	85990	77750	82500	76710	163580	144600	162480	85610	63980	66060
MEAN	1989	2737	2774	2508	2845	2475	5453	4665	5416	2762	2064	2202
MAX	2280	5080	4500	2670	3320	3040	7720	16100	16900	4150	2300	2260
MIN	1870	1770	1780	2350	2470	2190	2210	2460	2180	1840	1990	2110

CAL YR 1983 TOTAL 948110 MEAN 2598 MAX 10200 MIN 1640
WTR YR 1984 TOTAL 1153020 MEAN 3150 MAX 16900 MIN 1770

BEST COPY AVAILABLE

01054200 WILD RIVER AT GILEAD, ME
(Hydrologic bench-mark station)

LOCATION.--Lat 44°25'26", long 70°58'46", Oxford County, Hydrologic Unit 01040002, on right bank 200 ft upstream from highway bridge on U.S. Route 2, 2,000 ft upstream from mouth, and 0.4 mi west of Gilead.

DRAINAGE AREA.--69.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge measurement water year 1959. July 1964 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 683.10 ft, National Geodetic Vertical Datum of 1929. Prior to Oct. 12, 1977, at site 180 ft downstream on left bank at same datum.

REMARKS.--Records good except those for winter period, and period of no gage-height record, Dec. 23 - Jan 27, which are fair.

AVERAGE DISCHARGE.--20 years, 184 ft^3/s (35.90 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,400 ft^3/s Apr. 5, 1984, gage height, 12.95 ft; minimum, 7.6 ft^3/s July 16, 1971, gage height, 1.89 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 24, 1959, reached a stage of 15.6 ft, from floodmarks; discharge, 18,100 ft^3/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 25	1345	3550	7.41	Apr. 05	2245	* 13400	12.95
Dec. 14	0430	3710	7.52	May 30	1215	3590	7.44
Mar. 19	2245	ice jam	* 15.70				

Minimum daily discharge, 11 ft^3/s Oct. 3,4 and Sept. 29-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	38	261	105	42	200	149	1000	955	78	30	19
2	12	38	213	97	41	155	177	498	968	61	30	19
3	11	38	185	89	40	135	203	348	684	51	29	18
4	11	436	154	83	49	120	234	1050	377	61	27	17
5	13	1130	206	79	58	115	3360	659	277	56	26	17
6	19	819	178	75	55	105	2800	434	227	78	25	16
7	26	513	592	72	51	97	1600	463	204	431	24	15
8	23	269	265	69	47	90	800	622	179	323	24	15
9	20	356	205	66	43	85	500	840	147	143	23	14
10	18	350	175	63	41	80	375	456	123	102	23	14
11	17	1060	135	61	40	76	290	356	107	83	23	15
12	16	1040	110	59	41	73	402	660	93	223	24	21
13	90	369	450	57	43	70	596	659	82	116	26	19
14	79	230	2580	54	75	75	674	560	96	78	34	16
15	69	186	963	53	175	82	615	392	119	63	136	15
16	61	360	625	51	375	88	931	304	83	65	61	18
17	54	864	396	50	275	100	1460	257	72	65	36	19
18	49	353	284	48	220	120	1300	233	66	75	27	16
19	46	234	242	47	170	200	999	238	80	121	24	14
20	43	199	186	46	140	350	824	296	64	71	25	15
21	41	845	150	45	120	500	777	286	54	54	24	27
22	39	683	130	44	110	570	479	265	50	49	22	22
23	39	389	120	54	100	600	523	365	46	45	22	17
24	55	287	110	60	115	400	1190	427	43	41	27	15
25	65	1770	100	59	300	310	1480	247	461	36	29	14
26	50	756	98	57	710	270	796	229	318	34	25	13
27	44	375	110	55	450	230	774	204	199	37	22	12
28	41	271	135	52	375	210	801	165	116	55	20	12
29	44	421	150	50	300	190	840	1210	86	44	19	11
30	44	407	135	47	---	175	1060	2370	77	36	18	11
31	39	---	120	45	---	159	---	2440	---	34	18	---
TOTAL	1191	15986	9763	1892	4601	6030	27009	18533	6454	2809	923	486
MEAN	38.4	503	315	61.0	159	195	900	598	215	90.6	29.8	16.2
MAX	90	1770	2580	105	710	600	3360	2440	968	431	136	27
MIN	11	38	98	44	40	70	149	165	43	34	18	11
CFSM	.55	7.23	4.53	.88	2.28	2.80	12.9	8.59	3.09	1.30	.43	.23
IN.	.64	8.06	5.22	1.01	2.46	3.22	14.44	9.91	3.45	1.50	.49	.26

CAL YR 1983 TOTAL 92738.4 MEAN 254 MAX 2750 MIN 9.4 CFSM 3.65 IN. 49.57
WTR YR 1984 TOTAL 94777 MEAN 259 MAX 3360 MIN 11 CFSM 3.72 IN. 50.66

BEST COPY AVAILABLE

01054200 WILD RIVER AT GILEAD, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1964 to September 1983.

INSTRUMENTATION.--Temperature recorder July 1964 to September 1983.

REMARKS.--Interruptions in the record were due to malfunctions of the recorder.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded 23.0°C June 13; Minimum recorded 0.0°C on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 01...	1230	39	26	6.4	11.5	3.0	<1.0	769	13.3	98	K2	<1
FEB 15...	1300	175	21	6.9	9.0	0.0	1.2	775	14.0	94	<1	K2
APR 17...	1200	1080	26	6.1	13.5	4.5	1.2	740	13.2	105	<1	<1
SEP 04...	1200	19	22	7.0	17.5	16.0	0.5	750	9.7	100	K1	K9

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 01...	6	1.5	0.6	1.5	0.4	7.0	6.0	1.1	0.1	6.7	22	22
FEB 15...	6	1.4	0.6	1.4	0.3	4.0	5.0	0.9	<0.1	6.1	32	18
APR 17...	4	1.0	0.4	0.6	0.2	3.0	3.6	0.5	<0.1	3.3	18	12
SEP 04...	6	1.4	0.5	1.0	0.5	6.0	3.9	0.6	0.1	8.2	24	20

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BEST COPY AVAILABLE

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
NOV 01...	<0.1	0.03	0.04	0.7	<0.01	0.01	<0.01	90	1	14.00
FEB 15...	<0.1	<0.01	0.01	0.6	0.03	<0.01	0.03	--	--	--
APR 17...	<0.1	0.07	0.09	0.1	<0.01	<0.01	<0.01	200	<1	11.00
SEP 04...	<0.1	0.03	0.04	0.5	<0.01	<0.01	<0.01	--	--	--

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 01...	<0.50	<1	<1	<3.00	2	40	2	10	4	<0.1
FEB 15...	--	--	--	--	--	--	--	--	--	--
APR 17...	<1.00	<1	<1	<3.00	2	40	3	<4.00	10	<0.1
SEP 04...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 01...	<10	<1	<1	<1	10	<6.0	<3.00	1	0.11	100
FEB 15...	--	--	--	--	--	--	--	1	0.47	100
APR 17...	<10	3	<1	<1	10	<6.0	20	10	29	52
SEP 04...	--	--	--	--	--	--	--	4	0.21	--

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
APR 17...	3.4	<0.4	2.3	2.7	<0.8	2.3	<0.4	0.06	0.22

BEST COPY AVAILABLE

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

LOCATION.--Lat 44°33'04", long 70°32'38", Oxford County, Hydrologic Unit 01040002, on right bank below lower power plant of Rumford Falls Power Co. in Rumford and 1,000 ft upstream from Swift River.

DRAINAGE AREA.--2,069 mi².

PERIOD OF RECORD.--May 1892 to current year. Monthly discharge only October 1903 to September 1904, published in WSP 1301.

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 420 ft, National Geodetic Vertical Datum of 1929. Aug. 1, 1937, to Nov. 19, 1979, nonrecording gages in pond above dam in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

REMARKS.--Records fair. No or unreliable gage-height record Nov.21 to Feb. 15, Apr. 5-9, June 2 to July 17. Several observations of water temperature and specific conductance were made during the year. Prior to Nov. 19, 1979, discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (Reservoirs in Androscoggin River Basin), with final regulation at Errol Dam about 84 mi upstream.

COOPERATION.--Prior to Nov. 19, 1979, records furnished by Rumford Falls Power Co.

AVERAGE DISCHARGE.--92 years, 3,733 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,000 ft³/s Mar. 20, 1936; minimum daily, 625 ft³/s Mar. 27, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge, 47,000 ft³/s Apr. 6; ft; minimum daily, 2,040 ft³/s Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2150	2710	5500	3050	2700	3600	3950	10800	30800	4150	2700	2180
2	2140	2250	4400	3050	2720	3340	4300	8190	26900	3250	2550	2180
3	2100	2190	3850	3050	2880	3350	4400	8000	26500	2850	2400	2180
4	2040	2550	2900	3120	3150	3320	5320	10600	27000	2760	2350	2270
5	2150	7710	3350	3290	3500	3250	14000	12200	17300	2700	2370	2300
6	2460	9920	3800	3450	3400	3220	44000	10500	14000	3250	2300	2360
7	2660	6470	5900	3350	3300	3120	31500	9600	11900	4550	2400	2320
8	2340	5020	4350	3250	3150	2950	21500	8800	10000	7100	2390	2270
9	2220	4190	3350	3130	3100	2960	15000	9900	7200	5800	2320	2230
10	2160	4170	3900	3070	2950	2880	11400	8000	6100	5000	2270	2310
11	2100	4730	3300	3050	3000	2800	8580	5350	5600	4300	2250	2340
12	2090	7340	2950	2800	3100	2680	7550	5370	5050	4700	2270	2510
13	2920	6140	8000	2880	3150	2850	8770	8750	4550	4600	2280	2330
14	3580	4850	23000	2940	3250	2600	10300	8310	4200	4300	2450	2440
15	3340	4130	16500	3070	3700	3000	11100	8960	3900	4100	2500	2470
16	2870	3850	11500	2880	5210	3200	10600	8440	4000	4050	2480	2410
17	2420	7270	9000	2830	6240	3250	16000	7380	3600	4000	2380	2400
18	2280	6200	8000	2860	5710	3150	18300	6550	3190	3930	2280	2410
19	2260	4400	7600	3000	5290	4080	16700	5570	3400	4340	2260	2320
20	2310	3600	5400	2900	5080	7260	14800	4460	3100	3660	2250	2370
21	2070	5800	4700	2830	5000	8510	13400	4440	3100	3210	2220	2470
22	2140	7700	4500	2680	4650	8140	11300	4180	2680	3170	2200	2430
23	2260	6300	3250	2780	4300	7660	9560	4230	2730	2680	2220	2460
24	2190	5050	3150	2700	4450	6730	10500	5610	2750	2850	2320	2420
25	2550	13500	3120	2880	4800	5770	15400	5140	3950	2770	2360	2390
26	2520	13600	2850	2920	6220	5150	13000	4380	5800	2720	2270	2460
27	2350	8500	3100	2900	5600	4600	11100	4210	5200	2830	2220	2350
28	2280	6850	3150	2920	4600	4650	10400	4150	4350	3070	2230	2390
29	2270	7000	3350	2800	3550	4500	9330	5430	4100	2930	2110	2380
30	2250	7050	3500	2800	---	4100	9130	17300	5200	2810	2150	2390
31	2230	---	3230	2850	---	3650	---	29200	---	2750	2170	---
TOTAL	73700	180540	174450	92030	117750	130270	391190	253900	253150	115180	71870	70690
MEAN	2377	6018	5627	2969	4080	4202	13040	8190	8438	3715	2318	2356
MAX	3580	13600	23000	3450	6240	8510	44000	29200	30800	7100	2700	2510
MIN	2040	2190	2850	2680	2700	2600	3950	4150	2680	2680	2110	2180

CAL YR 1983 TOTAL 1638260 MEAN 4488 MAX 23000 MIN 1830
WTR YR 1984 TOTAL 1924720 MEAN 5259 MAX 44000 MIN 2040

BEST COPY AVAILABLE

01055000 SWIFT RIVER NEAR ROXBURY, ME

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, Hydrologic Unit 01040002, on left bank 0.2 mi downstream from Philbrick Brook, 2.1 mi downstream from Roxbury, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--96.9 mi^2.

PERIOD OF RECORD.--June 1929 to current year.

REVISED RECORDS.--WSP 801: 1934(M). WSP 1301: 1937-38(M), 1942(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period and period which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--55 years, 200 ft^3/s (28.03 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s Oct. 24, 1959, gage height, 12.87 ft, from rating curve extended above 7,000 ft^3/s; minimum, 3.8 ft^3/s Sept. 16, 17, 1948, gage height, 0.93 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft^3/s and maximums (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 25	1600	3760	6.69	Apr. 06	0400	* 5780	7.99
Dec. 14	0730	3870	6.77	May 31	1500	4350	7.10

Minimum discharge, 7.1 ft^3/s Sept. 10, 11, gage height, 0.92 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	40	263	123	52	115	166	960	1420	261	44	22
2	19	40	214	105	50	110	197	552	993	154	43	15
3	20	42	186	82	49	100	228	373	709	113	39	12
4	21	211	154	71	54	95	281	844	458	99	34	12
5	77	1020	203	62	74	89	671	697	344	231	31	12
6	147	687	171	58	69	85	3790	443	272	275	28	10
7	85	501	438	54	60	81	1900	428	251	776	28	9.6
8	54	270	246	51	55	78	1190	445	215	787	35	9.1
9	41	267	173	48	54	76	641	690	185	318	29	8.4
10	36	301	183	47	51	73	449	448	155	232	26	7.6
11	32	471	130	46	50	71	376	337	125	197	25	9.4
12	31	631	115	45	51	69	459	749	110	537	24	18
13	137	330	841	44	53	67	654	860	97	260	24	16
14	168	206	2670	43	56	66	815	687	143	173	24	13
15	122	164	963	43	90	71	790	521	191	145	35	12
16	73	215	663	42	540	76	703	364	121	132	36	11
17	56	208	437	42	430	85	1390	295	99	119	24	11
18	49	357	295	41	225	95	1720	257	90	145	18	9.7
19	43	235	247	41	180	200	1170	239	185	204	16	8.7
20	39	184	145	41	155	375	884	225	125	123	20	9.0
21	37	423	135	40	140	675	819	232	91	98	19	16
22	36	516	125	40	115	735	556	219	89	85	15	17
23	35	315	120	58	105	525	586	230	75	75	14	12
24	76	250	110	61	110	343	995	397	66	67	23	10
25	90	2090	105	63	120	258	1690	241	719	57	37	8.8
26	62	992	104	64	145	224	881	190	779	52	23	9.4
27	52	460	120	61	135	195	807	168	401	64	16	12
28	46	314	144	60	130	183	828	146	229	104	13	13
29	44	369	203	57	125	171	856	854	218	73	12	11
30	45	383	180	55	---	155	951	2560	286	57	12	10
31	41	---	150	54	---	148	---	3430	---	50	29	---
TOTAL	1834	12992	10233	1742	3523	5689	27443	19081	9241	6063	796	354.7
MEAN	59.2	433	330	56.2	121	184	915	616	308	196	25.7	11.8
MAX	168	2090	2670	123	540	735	3790	3430	1420	787	44	22
MIN	19	40	104	40	49	66	166	146	66	50	12	7.6
CFSM	61	4.47	3.41	.58	1.25	1.90	9.44	6.36	3.18	2.02	.27	.12
IN.	70	4.99	3.93	.67	1.35	2.18	10.54	7.33	3.55	2.33	.31	.14

CAL YR 1983 TOTAL 96377 MEAN 264 MAX 3460 MIN 11 CFSM 2.72 IN. 37.00
WTR YR 1984 TOTAL 98991.7 MEAN 270 MAX 3790 MIN 7.6 CFSM 2.79 IN. 38.00

BEST COPY AVAILABLE

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, Hydrologic Unit 01040002, on left bank 500 ft upstream from upper highway bridge at Turner Center and 3.6 mi upstream from mouth.

DRAINAGE AREA.--169 mi^2.

PERIOD OF RECORD.--August 1941 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainge area.

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period which are fair. No gage-height record Jan. 26 to Mar. 2. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--43 years, 309 ft^3/s (24.83 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft^3/s Mar. 27, 1953, gage height, 11.18 ft; minimum, 5.6 ft^3/s Aug. 29, 1956, gage height, 0.72 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 06	1100	1860	4.54	Feb. 27	--	1920	4.60
Nov. 26	1300	2450	5.07	Apr. 06	2300	* 7790	8.30
Dec. 15	0600	4090	6.22	Jun. 01	1200	3750	6.00

Minimum discharge, 27 ft^3/s Sept. 29, 30, gage height, 1.06 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	55	803	240	105	620	533	428	3640	451	80	54
2	35	53	651	225	100	530	666	363	2990	330	74	49
3	34	53	548	210	100	450	810	346	2260	241	69	46
4	33	83	449	195	160	410	957	461	1680	194	64	44
5	35	835	362	185	210	375	1330	888	1260	169	60	42
6	39	1750	385	175	220	350	5690	815	951	229	56	39
7	38	1330	1120	170	195	325	5980	642	707	273	55	38
8	38	500	1250	160	170	305	3150	498	583	343	64	36
9	37	560	945	155	150	285	1920	564	480	321	70	34
10	36	740	749	150	140	270	1360	555	388	240	65	33
11	37	910	717	145	130	255	1100	446	309	200	61	34
12	35	1150	750	140	140	245	1070	468	255	225	58	45
13	97	700	927	135	160	230	1140	833	220	222	57	42
14	173	500	3150	130	170	225	1150	862	209	174	59	41
15	144	360	3720	130	185	220	1120	866	279	145	75	40
16	116	650	2280	125	1000	225	1050	708	246	132	84	40
17	120	1230	1430	125	800	250	1410	569	199	130	75	38
18	116	850	1010	120	700	280	1430	467	174	123	63	35
19	110	530	600	120	560	357	1220	404	176	121	57	33
20	103	380	400	115	470	616	989	387	169	118	106	33
21	96	700	300	115	400	936	820	344	148	111	131	34
22	91	1200	255	110	350	1190	687	300	132	219	98	34
23	83	805	230	110	315	1340	582	270	121	216	81	33
24	80	609	215	110	300	1230	590	375	112	185	83	32
25	94	1300	205	135	550	986	1080	485	205	146	98	30
26	92	2360	200	150	1600	809	1150	310	772	117	96	30
27	81	1790	215	130	1800	668	888	267	819	98	80	30
28	72	1050	235	120	1200	607	685	261	590	105	67	28
29	67	857	300	115	750	560	556	472	418	112	61	28
30	62	949	340	110	---	500	478	1780	431	100	57	28
31	59	---	280	105	---	474	---	2480	---	88	55	---
TOTAL	2289	24839	25021	4460	13130	16143	41591	18834	20871	5878	2259	1103
MEAN	73.8	828	807	144	453	521	1386	608	696	190	72.9	36.8
MAX	173	2360	3720	240	1800	1340	5980	2480	3640	451	131	54
MIN	33	53	200	105	100	220	478	261	117	88	55	28
CFSM	.44	4.90	4.78	.85	2.68	3.08	8.20	3.60	4.12	1.12	.43	.22
IN.	.50	5.47	5.51	.98	2.89	3.55	9.15	4.15	4.59	1.29	.50	.24

CAL YR 1983 TOTAL 174686 MEAN 479 MAX 4030 MIN 26 CFSM 2.83 IN. 38.45
WTR YR 1984 TOTAL 176418 MEAN 482 MAX 5980 MIN 28 CFSM 2.85 IN. 38.83

BEST COPY AVAILABLE

01056000 GULF ISLAND POND NEAR LEWISTON, ME

LOCATION.--Lat 44°08'50", long 70°12'25", Androscoggin County, Hydrologic Unit 01040002, on the upstream side 300 ft from left edge of Gulf Island dam on the Androscoggin River, 4.0 mi north of Lewiston, 5.0 mi upstream from the mouth of the Little Androscoggin River.

DRAINAGE AREA.--2863 mi².

PERIOD OF RECORD.--Water years 1981 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1981 to current year.
pH: July 1981 to current year.
WATER TEMPERATURES: July 1981 to current year.
DISSOLVED OXYGEN: July 1981 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1981.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor or pumping system. Pump failed and frozen in place Dec. 16 to Feb 16.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 171 micromhos Sept. 21, 1983; minimum, 24 micromhos June 2, 1984.
pH: Maximum recorded, 7.3 units Aug. 20, 1983; minimum, 6.0 units Aug. 17, 1981, Apr. 7-8, 1984.
WATER TEMPERATURES: Maximum, 26.5°C Aug. 9, 1983; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum, 15.5 mg/L Dec. 15, 1983, April 7, 1984; minimum, 2.3 mg/L July 28, 1982.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 157 micromhos Sept. 10; minimum, 24 micromhos June 2.
pH: Maximum, 7.0 units Aug. 8; minimum, 6.4 units Apr. 7, 8.
WATER TEMPERATURES: Maximum, 26.0°C Aug. 8, 17; minimum , 0.0°C on many days during winter period.
DISSOLVED OXYGEN: Maximum, 15.5 mg/L Dec. 15, Apr.7; minimum, 3.7 mg/L Aug. 17.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	113	108	110	136	132	134	55	50	52			
2	121	110	113	135	131	133	58	53	56			
3	118	112	115	133	130	132	57	55	56			
4	122	116	119	132	127	131	60	55	58			
5	122	121	122	130	127	129	62	58	60			
6	123	121	122	131	118	128	66	62	64			
7	124	122	123	114	72	91	73	63	68			
8	126	123	124	74	58	63	81	72	76			
9	130	127	129	59	54	56	80	77	78			
10	133	129	131	56	54	55	77	69	74			
11	135	133	134	60	56	58	71	63	67			
12	136	132	135	67	60	63	67	63	65			
13	131	121	127	77	67	74	68	63	65			
14	126	119	121	78	75	77	75	66	72			
15	128	125	126	75	67	71	72	38	53			
16	128	127	127	68	62	65	---	---	---			
17	127	125	126	66	62	63	---	---	---			
18	127	123	125	74	66	70	---	---	---			
19	129	124	127	76	74	75	---	---	---			
20	127	120	123	75	64	70	---	---	---			
21	127	119	123	65	59	61	---	---	---			
22	119	108	113	66	60	62	---	---	---			
23	109	102	105	75	66	70	---	---	---			
24	110	105	107	77	72	75	---	---	---			
25	112	109	110	73	62	67	---	---	---			
26	128	104	119	63	54	60	---	---	---			
27	132	111	122	52	39	43	---	---	---			
28	139	118	127	40	38	39	---	---	---			
29	142	121	125	44	40	42	---	---	---			
30	132	127	129	50	43	47	---	---	---			
31	134	129	131	---	---	---	---	---	---			
MONTH	139	102	122	136	38	77	81	38	64			

BEST COPY AVAILABLE

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	73	66	70	77	72	76	48	44	46
2	---	---	---	66	64	65	80	76	77	49	47	48
3	---	---	---	72	65	67	84	77	81	48	44	46
4	---	---	---	76	68	72	86	83	85	45	43	44
5	---	---	---	80	66	76	86	82	84	48	45	46
6	---	---	---	---	---	---	83	48	71	51	46	49
7	---	---	---	95	81	90	44	26	30	50	40	43
8	---	---	---	97	84	88	30	26	28	43	40	42
9	---	---	---	95	89	92	34	30	32	58	43	46
10	---	---	---	93	89	91	39	34	37	53	49	51
11	---	---	---	98	92	94	41	38	39	53	52	52
12	---	---	---	95	92	93	45	40	43	53	49	51
13	---	---	---	97	93	90	52	44	48	55	47	50
14	---	---	---	99	95	97	55	52	54	63	54	60
15	---	---	---	100	98	99	55	52	54	61	50	56
16	---	---	---	103	99	100	52	49	50	52	47	49
17	111	108	110	106	101	104	50	48	48	49	46	47
18	109	103	106	115	105	110	50	43	48	48	45	46
19	102	92	98	---	---	---	44	38	40	49	46	47
20	92	79	85	---	---	---	38	37	38	50	46	48
21	89	76	79	---	---	---	39	36	38	52	49	50
22	78	77	78	---	---	---	41	37	40	57	52	54
23	79	78	79	---	---	---	43	41	42	60	55	57
24	80	79	79	59	54	57	46	43	44	69	58	63
25	80	79	79	54	51	53	53	46	50	74	65	71
26	83	79	81	---	---	---	54	43	49	77	71	75
27	84	81	83	59	53	55	43	38	40	78	73	76
28	84	76	81	64	58	61	43	39	40	75	69	72
29	78	72	76	69	63	66	45	40	42	72	68	70
30	---	---	---	71	67	69	45	43	44	75	68	72
31	---	---	---	75	68	72	---	---	---	75	33	55
MONTH	111	72	86	115	51	80	86	26	50	78	33	54

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	34	25	28	78	71	73	120	108	116	139	138	139
2	27	24	26	80	72	76	121	113	117	141	139	140
3	30	25	28	82	78	80	121	117	119	143	141	142
4	31	28	29	80	77	79	119	117	118	145	142	143
5	35	28	31	79	76	77	120	117	119	152	145	147
6	38	33	35	81	77	79	124	119	121	151	148	150
7	40	36	37	85	79	83	129	122	125	153	150	152
8	43	38	39	85	80	84	126	122	125	156	152	154
9	46	40	43	81	71	76	127	124	125	156	155	156
10	50	43	46	81	71	76	130	128	129	157	156	156
11	50	46	48	74	62	69	131	129	130	156	154	155
12	57	50	53	71	63	68	131	130	130	155	154	154
13	63	53	59	68	65	66	134	130	132	155	154	154
14	68	61	65	75	68	70	140	132	134	154	151	153
15	72	68	70	78	73	76	145	136	141	153	152	153
16	77	72	74	78	76	77	144	139	141	152	151	151
17	83	75	79	76	75	75	146	139	142	152	147	150
18	82	79	81	76	75	75	147	144	146	149	146	147
19	85	80	83	80	76	77	148	146	147	149	145	146
20	84	81	82	90	79	82	149	146	148	147	142	145
21	86	82	84	92	85	88	148	146	147	147	145	146
22	93	85	88	93	88	91	147	137	143	147	146	146
23	94	91	93	95	92	93	141	133	138	146	144	145
24	94	91	93	95	91	93	142	139	141	145	140	143
25	95	94	94	93	92	92	139	136	138	144	138	141
26	97	94	96	---	---	---	138	135	136	144	141	143
27	103	98	101	---	---	---	141	136	138	143	140	141
28	101	78	92	99	97	98	139	136	138	140	137	139
29	91	73	81	103	98	100	142	137	139	138	136	136
30	79	72	75	117	106	113	145	138	142	136	135	135
31	---	---	---	120	113	116	143	139	140	---	---	---
MONTH	103	24	64	120	62	83	149	108	134	157	135	147
YEAR	157	24	89									

BEST COPY AVAILABLE

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.5	6.4	6.5	6.7	6.7	6.7	6.5	6.4	6.5			
2	6.5	6.4	6.4	6.7	6.7	6.7	6.6	6.5	6.6			
3	6.4	6.4	6.4	6.8	6.7	6.7	6.6	6.6	6.6			
4	6.5	6.4	6.4	6.8	6.7	6.8	6.6	6.6	6.6			
5	6.6	6.5	6.6	6.9	6.8	6.8	6.6	6.6	6.6			
6	6.5	6.4	6.5	6.9	6.8	6.9	6.7	6.6	6.7			
7	6.5	6.4	6.5	6.8	6.6	6.7	6.7	6.7	6.7			
8	6.5	6.4	6.5	6.7	6.5	6.6	6.7	6.7	6.7			
9	6.5	6.5	6.5	6.5	6.4	6.4	6.7	6.7	6.7			
10	6.5	6.5	6.5	6.4	6.3	6.3	6.7	6.7	6.7			
11	6.6	6.6	6.6	6.4	6.3	6.4	6.7	6.6	6.7			
12	6.6	6.6	6.6	6.5	6.4	6.4	6.6	6.6	6.6			
13	6.6	6.6	6.6	6.6	6.5	6.6	6.5	6.6	6.6			
14	6.6	6.5	6.6	6.6	6.6	6.6	6.7	6.6	6.6			
15	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.3	6.5			
16	6.7	6.6	6.7	6.6	6.5	6.6	---	---	---			
17	6.7	6.7	6.7	6.6	6.5	6.5	---	---	---			
18	6.7	6.7	6.7	6.7	6.5	6.6	---	---	---			
19	6.7	6.7	6.7	6.7	6.7	6.7	---	---	---			
20	6.7	6.7	6.7	6.7	6.7	6.7	---	---	---			
21	6.7	6.7	6.7	6.7	6.6	6.6	---	---	---			
22	6.7	6.6	6.6	6.6	6.6	6.6	---	---	---			
23	6.6	6.5	6.6	6.6	6.6	6.6	---	---	---			
24	6.7	6.6	6.6	6.7	6.6	6.6	---	---	---			
25	6.7	6.6	6.7	6.7	6.6	6.6	---	---	---			
26	6.7	6.6	6.7	6.6	6.5	6.6	---	---	---			
27	6.7	6.7	6.7	6.5	6.3	6.4	---	---	---			
28	6.7	6.7	6.7	6.3	6.3	6.3	---	---	---			
29	6.8	6.7	6.7	6.4	6.3	6.4	---	---	---			
30	6.8	6.7	6.8	6.5	6.4	6.4	---	---	---			
31	6.8	6.7	6.7	---	---	---	---	---	---			
MONTH	6.8	6.4	6.6	6.9	6.3	6.6	6.7	6.3	6.6			

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	6.7	6.6	6.6	6.8	6.6	6.7	6.7	6.5	6.6
2	---	---	---	6.7	6.6	6.6	6.8	6.7	6.8	6.6	6.5	6.6
3	---	---	---	6.7	6.6	6.6	6.8	6.7	6.8	6.7	6.6	6.6
4	---	---	---	6.7	6.6	6.6	6.8	6.7	6.8	6.7	6.6	6.6
5	---	---	---	6.7	6.6	6.7	6.8	6.7	6.8	6.7	6.5	6.6
6	---	---	---	6.7	6.6	6.7	6.8	6.5	6.7	6.7	6.6	6.7
7	---	---	---	6.7	6.6	6.7	6.5	6.0	6.2	6.7	6.6	6.7
8	---	---	---	6.7	6.7	6.7	6.2	6.0	6.1	6.7	6.6	6.6
9	---	---	---	6.8	6.7	6.7	6.4	6.2	6.3	6.7	6.6	6.7
10	---	---	---	6.8	6.7	6.7	6.5	6.4	6.5	6.7	6.6	6.7
11	---	---	---	6.8	6.7	6.7	6.6	6.5	6.5	6.7	6.6	6.7
12	---	---	---	6.8	6.7	6.8	6.6	6.5	6.6	6.7	6.7	6.7
13	---	---	---	6.8	6.7	6.7	6.6	6.5	6.6	6.8	6.6	6.7
14	---	---	---	6.8	6.7	6.8	6.7	6.5	6.7	6.8	6.6	6.7
15	---	---	---	6.8	6.7	6.8	6.7	6.6	6.7	6.7	6.6	6.7
16	---	---	---	6.8	6.7	6.8	6.7	6.7	6.7	6.7	6.5	6.6
17	6.8	6.7	6.8	6.8	6.7	6.7	6.7	6.6	6.6	6.7	6.6	6.6
18	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.5	6.6	6.7	6.6	6.7
19	6.8	6.7	6.7	6.8	6.7	6.7	6.5	6.4	6.5	6.7	6.6	6.7
20	6.8	6.7	6.7	6.8	6.8	6.8	6.5	6.4	6.5	6.7	6.6	6.6
21	6.7	6.6	6.7	6.9	6.8	6.8	6.5	6.4	6.4	6.7	6.6	6.6
22	6.7	6.6	6.7	6.9	6.8	6.8	6.6	6.5	6.5	6.7	6.6	6.6
23	6.7	6.7	6.7	6.8	6.6	6.7	6.6	6.5	6.6	6.7	6.6	6.6
24	6.7	6.6	6.7	6.6	6.5	6.6	6.6	6.6	6.6	6.7	6.6	6.6
25	6.8	6.6	6.7	6.6	6.5	6.6	6.7	6.6	6.6	6.7	6.6	6.6
26	6.8	6.6	6.7	6.6	6.5	6.6	6.7	6.5	6.7	6.6	6.5	6.6
27	6.8	6.7	6.7	6.6	6.5	6.6	6.6	6.4	6.5	6.6	6.5	6.5
28	6.8	6.7	6.7	6.6	6.5	6.6	6.6	6.4	6.5	6.6	6.5	6.5
29	6.8	6.7	6.7	6.7	6.5	6.6	6.6	6.5	6.6	6.5	6.4	6.5
30	---	---	---	6.7	6.6	6.6	6.7	6.6	6.6	6.6	6.4	6.5
31	---	---	---	6.7	6.6	6.7	---	---	---	6.6	6.3	6.5
MONTH	6.8	6.6	6.7	6.9	6.5	6.7	6.8	6.0	6.6	6.8	6.3	6.6

BEST COPY AVAILABLE

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.4	6.2	6.3	6.7	6.5	6.6	6.6	6.5	6.5	6.7	6.6	6.6
2	6.3	6.1	6.2	6.7	6.5	6.6	6.6	6.5	6.6	6.6	6.6	6.6
3	6.3	6.2	6.3	6.7	6.6	6.6	6.7	6.6	6.6	6.6	6.5	6.6
4	6.3	6.2	6.3	6.7	6.5	6.6	6.7	6.6	6.6	6.5	6.5	6.5
5	6.3	6.2	6.3	6.6	6.5	6.5	6.7	6.6	6.6	6.5	6.5	6.5
6	6.4	6.3	6.3	6.6	6.4	6.5	6.7	6.6	6.6	6.5	6.5	6.5
7	6.5	6.3	6.4	6.6	6.4	6.5	6.7	6.6	6.6	6.5	6.5	6.5
8	6.5	6.4	6.4	6.6	6.5	6.6	7.0	6.6	6.8	6.5	6.4	6.5
9	6.6	6.4	6.5	6.6	6.5	6.6	6.7	6.6	6.6	6.6	6.5	6.5
10	6.5	6.3	6.4	6.7	6.5	6.6	6.7	6.6	6.6	6.6	6.5	6.6
11	6.5	6.4	6.5	6.7	6.6	6.6	6.7	6.5	6.6	6.6	6.5	6.6
12	6.5	6.4	6.4	6.9	6.6	6.7	6.6	6.5	6.6	6.7	6.5	6.6
13	6.5	6.4	6.5	6.6	6.5	6.6	6.6	6.5	6.6	6.6	6.5	6.6
14	6.5	6.4	6.5	6.7	6.6	6.6	6.6	6.5	6.6	6.6	6.5	6.6
15	6.4	6.4	6.4	6.7	6.5	6.7	6.6	6.5	6.6	6.7	6.6	6.6
16	6.5	6.4	6.4	6.7	6.6	6.7	6.6	6.5	6.6	6.6	6.6	6.6
17	6.5	6.4	6.5	6.7	6.6	6.7	6.9	6.5	6.7	6.6	6.5	6.6
18	6.6	6.5	6.6	6.7	6.5	6.6	6.8	6.6	6.7	6.6	6.5	6.6
19	6.6	6.5	6.5	6.6	6.4	6.5	6.7	6.6	6.6	6.7	6.6	6.6
20	6.6	6.4	6.5	6.6	6.4	6.5	6.7	6.6	6.6	6.7	6.6	6.7
21	6.7	6.4	6.5	6.6	6.5	6.5	6.6	6.4	6.5	6.7	6.6	6.7
22	6.6	6.4	6.5	6.6	6.5	6.5	6.5	6.4	6.5	6.7	6.6	6.7
23	6.5	6.4	6.4	6.5	6.4	6.5	6.5	6.4	6.5	6.7	6.5	6.6
24	6.4	6.4	6.4	6.8	6.4	6.6	6.6	6.5	6.5	6.7	6.5	6.6
25	6.4	6.4	6.4	6.7	6.6	6.6	6.6	6.5	6.6	6.7	6.6	6.6
26	6.6	6.4	6.5	---	---	---	6.5	6.4	6.4	6.7	6.5	6.6
27	6.7	6.5	6.7	---	---	---	6.5	6.5	6.5	6.7	6.6	6.6
28	6.7	6.6	6.7	6.5	6.5	6.5	6.5	6.5	6.5	6.7	6.5	6.6
29	6.7	6.6	6.6	6.5	6.4	6.5	6.5	6.5	6.5	6.6	6.5	6.6
30	6.7	6.6	6.6	6.5	6.4	6.5	6.5	6.5	6.5	6.6	6.5	6.6
31	---	---	---	6.6	6.5	6.5	6.7	6.5	6.6	---	---	---
MONTH	6.7	6.1	6.5	6.9	6.4	6.6	7.0	6.4	6	6.7	6.4	6.6
YEAR	7.0	6.0	6.6									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	16.5	17.0	8.0	7.5	8.0	1.5	1.0	1.5			
2	17.0	16.5	17.0	8.0	7.5	7.5	1.5	1.0	1.5			
3	17.0	16.5	17.0	7.5	7.5	7.5	1.5	1.0	1.5			
4	18.0	16.5	17.0	8.0	7.5	7.5	1.5	1.0	1.5			
5	17.5	17.0	17.5	7.5	7.0	7.0	1.5	1.0	1.5			
6	17.0	16.5	17.0	7.0	6.0	6.5	1.5	.5	1.0			
7	17.0	16.5	16.5	6.0	5.5	5.5	1.5	.5	.5			
8	16.5	16.5	16.5	5.5	5.5	5.5	1.0	.0	.5			
9	16.5	16.5	16.5	6.0	5.5	5.5	1.0	.5	1.0			
10	16.5	16.0	16.0	5.5	5.5	5.5	1.0	.5	.5			
11	16.0	15.5	15.5	6.0	5.5	6.0	.5	.5	.5			
12	15.5	15.0	15.5	6.0	6.0	6.0	.5	.5	.5			
13	15.0	14.5	15.0	6.0	6.0	6.0	.5	.5	.5			
14	15.0	14.0	14.5	6.0	5.5	6.0	.5	.5	.5			
15	15.0	14.5	14.5	6.0	5.5	5.5	.5	.5	.5			
16	14.5	14.5	14.5	5.5	5.0	5.0	---	---	---			
17	14.5	14.0	14.0	5.0	4.0	4.5	---	---	---			
18	14.0	13.5	14.0	4.0	3.0	3.5	---	---	---			
19	14.0	13.5	13.5	3.0	2.5	2.5	---	---	---			
20	13.5	13.0	13.0	2.5	2.0	2.5	---	---	---			
21	12.5	12.0	12.5	2.5	2.0	2.5	---	---	---			
22	12.0	11.5	12.0	2.5	2.0	2.0	---	---	---			
23	11.5	11.0	11.0	2.0	2.0	2.0	---	---	---			
24	11.0	11.0	11.0	2.5	2.0	2.5	---	---	---			
25	11.0	10.5	11.0	3.0	2.5	3.0	---	---	---			
26	10.5	9.5	10.0	3.5	3.0	3.0	---	---	---			
27	10.0	9.0	9.5	3.0	2.5	2.5	---	---	---			
28	9.5	8.5	9.0	2.5	2.0	2.0	---	---	---			
29	9.5	8.5	9.0	2.0	1.5	1.5	---	---	---			
30	8.5	8.5	8.5	1.5	1.5	1.5	---	---	---			
31	8.5	8.0	8.0	---	---	---	---	---	---			
MONTH	18.0	8.0	13.5	8.0	1.5	4.5	1.5	.0	1.0			

BEST COPY AVAILABLE

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	.5	.5	.5	1.5	1.5	.5	10.5	9.5	10.5
2	---	---	---	.5	.5	.5	2.0	1.5	2.0	11.0	10.5	10.5
3	---	---	---	.5	.5	.5	3.0	2.0	2.5	10.5	10.0	10.5
4	---	---	---	.5	.5	.5	3.5	2.5	3.0	10.0	9.5	10.0
5	---	---	---	.5	.5	.5	4.0	3.5	3.5	9.5	8.5	9.0
6	---	---	---	.5	.5	.5	4.5	3.0	4.0	9.0	8.5	8.5
7	---	---	---	.5	.5	.5	3.0	1.5	2.0	9.0	8.0	8.5
8	---	---	---	.5	.5	.5	2.0	1.5	2.0	9.5	8.5	9.0
9	---	---	---	.5	.5	.5	2.5	2.0	2.0	10.0	9.5	10.0
10	---	---	---	.5	.5	.5	2.5	2.5	2.5	11.0	10.0	10.5
11	---	---	---	.5	.5	.5	2.5	2.5	2.5	11.0	10.5	10.5
12	---	---	---	.5	.5	.5	3.5	2.5	3.0	11.0	10.5	11.0
13	---	---	---	.5	.5	.5	4.5	3.5	4.0	11.5	10.5	11.0
14	---	---	---	.5	.5	.5	6.0	4.5	5.5	11.5	11.0	11.5
15	---	---	---	.5	.5	.5	6.5	6.0	6.5	11.5	11.0	11.5
16	---	---	---	.5	.5	.5	6.5	6.0	6.0	11.0	10.5	11.0
17	.5	.5	.5	.5	.5	.5	6.0	5.5	5.5	11.0	10.5	10.5
18	.5	.5	.5	.5	.5	.5	5.5	5.0	5.0	11.0	10.5	10.5
19	.5	.5	.5	.5	.5	.5	5.0	5.0	5.0	11.0	10.5	10.5
20	.5	.5	.5	.5	.5	.5	5.5	5.0	5.5	11.5	10.5	11.0
21	.5	.5	.5	.5	.5	.5	5.5	5.5	5.5	13.0	11.0	12.0
22	.5	.5	.5	.5	.5	.5	6.0	5.5	5.5	13.5	12.0	12.5
23	.5	.5	.5	.5	.5	.5	6.5	5.5	6.0	15.0	12.5	13.0
24	.5	.5	.5	.5	.5	.5	6.0	6.0	6.0	16.0	14.0	15.5
25	.5	.5	.5	.5	.5	.5	6.5	6.0	6.0	16.5	15.5	16.0
26	.5	.5	.5	1.0	.5	.5	6.5	6.0	6.5	17.5	16.0	16.5
27	1.0	.5	.5	1.0	.5	1.0	7.0	6.0	6.5	19.0	16.5	18.0
28	1.0	.5	.5	1.5	1.0	1.0	8.0	6.5	7.0	18.5	17.5	18.0
29	1.0	.5	.5	1.5	1.0	1.5	9.5	8.0	8.5	17.5	17.0	17.5
30	---	---	---	2.0	1.5	1.5	10.0	9.0	9.5	16.5	15.0	16.0
31	---	---	---	2.0	1.5	1.5	---	---	---	15.0	10.5	12.5
MONTH	1.0	.5	.5	2.0	.5	.5	10.0	1.5	4.5	19.0	8.0	12.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.5	10.5	10.5	19.0	18.0	18.5	22.5	22.0	22.5	23.5	23.0	23.0
2	10.5	10.5	10.5	20.0	18.0	19.0	23.0	22.0	22.5	23.0	22.5	23.0
3	12.0	11.0	11.5	21.0	20.0	20.5	23.0	22.5	22.5	22.5	22.5	22.5
4	12.5	12.0	12.0	22.0	20.5	21.0	23.5	22.5	23.0	22.5	22.0	22.0
5	14.0	12.5	13.0	22.5	21.0	21.5	23.5	23.0	23.5	22.5	22.0	22.0
6	15.0	14.0	14.5	23.0	22.0	22.5	24.0	23.5	23.5	22.0	21.5	22.0
7	15.5	14.5	15.0	23.0	22.0	22.5	24.5	24.0	24.0	22.0	21.5	21.5
8	16.0	15.0	15.5	23.0	22.5	22.5	26.0	24.0	25.0	21.5	21.0	21.0
9	17.5	15.5	16.5	22.5	22.0	22.5	25.5	25.0	25.0	20.5	20.5	20.5
10	18.5	16.5	18.0	22.0	20.5	21.5	25.5	25.0	25.0	20.5	20.0	20.0
11	21.0	18.0	19.0	21.0	20.0	20.5	25.0	25.0	25.0	20.5	20.0	20.0
12	21.0	20.0	20.5	22.0	20.0	21.0	25.0	25.0	25.0	21.0	20.5	20.5
13	23.0	20.5	21.5	21.0	20.5	20.5	25.0	25.0	25.0	20.5	20.0	20.0
14	22.5	22.0	22.0	21.5	20.5	21.0	25.0	24.5	25.0	20.0	19.5	20.0
15	22.0	21.5	22.0	22.5	21.0	22.0	25.0	24.5	24.5	20.0	19.0	19.5
16	21.5	21.0	21.0	22.5	21.5	22.0	25.0	24.5	24.5	19.0	19.0	19.0
17	21.0	20.5	21.0	23.0	22.5	23.0	26.0	24.5	25.0	19.0	18.5	19.0
18	21.0	20.0	20.5	23.5	22.5	23.0	25.5	24.5	25.0	18.5	18.0	18.5
19	20.5	20.0	20.0	23.0	22.5	23.0	24.5	24.5	24.5	18.0	18.0	18.0
20	22.0	19.5	20.5	23.0	22.5	23.0	24.5	24.0	24.5	18.0	17.5	18.0
21	22.0	20.0	20.5	23.5	23.0	23.0	24.0	24.0	24.0	18.0	18.0	18.0
22	21.5	20.5	20.5	23.5	23.0	23.0	24.0	23.5	23.5	18.0	17.5	18.0
23	21.5	20.5	21.0	23.0	23.0	23.0	23.5	23.0	23.5	18.0	17.5	17.5
24	20.5	20.0	20.5	24.5	23.0	23.5	23.5	23.0	23.5	18.0	17.0	17.5
25	20.5	20.0	20.0	24.0	23.5	24.0	23.5	23.0	23.5	17.5	17.0	17.5
26	20.0	19.5	20.0	---	---	---	23.0	22.5	23.0	18.0	17.0	17.5
27	19.5	18.0	19.0	---	---	---	23.0	22.5	22.5	18.0	17.5	17.5
28	18.0	17.0	17.5	23.0	22.5	23.0	22.5	22.5	22.5	17.5	17.0	17.5
29	18.5	17.5	17.5	23.0	22.5	22.5	22.5	22.0	22.5	17.0	17.0	17.0
30	18.5	17.5	18.0	22.5	22.0	22.5	23.0	22.5	22.5	17.0	17.0	17.0
31	---	---	---	22.5	22.0	22.0	23.5	22.5	23.0	---	---	---
MONTH	23.0	10.5	18.0	24.5	18.0	22.0	26.0	22.0	24.0	23.5	17.0	19.5
YEAR	26.0	.0	12.0									

BEST COPY AVAILABLE

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.1	5.9	6.0	9.7	9.5	9.6	14.2	13.9	14.0			
2	6.1	5.7	5.9	9.9	9.6	9.8	14.0	13.9	14.0			
3	5.8	5.6	5.7	10.0	9.7	9.8	14.0	13.8	13.9			
4	6.3	5.4	5.7	10.2	9.7	10.0	13.8	13.7	13.8			
5	6.5	6.2	6.4	10.6	10.3	10.4	13.9	13.7	13.8			
6	6.3	5.6	6.0	11.4	10.6	11.0	14.0	13.9	14.0			
7	6.3	5.3	5.9	12.1	11.4	11.8	14.1	13.9	14.0			
8	6.0	5.4	5.7	12.3	12.1	12.2	14.6	13.8	14.1			
9	6.1	5.7	5.9	12.3	12.2	12.2	14.7	14.6	14.6			
10	6.0	5.7	5.9	12.2	12.1	12.1	14.9	14.5	14.7			
11	5.9	5.8	5.9	12.2	12.1	12.1	15.2	14.8	15.0			
12	6.5	5.9	6.2	12.1	11.8	12.0	15.2	14.9	15.0			
13	6.9	6.5	6.7	11.8	11.6	11.7	15.1	14.9	15.0			
14	7.3	6.7	7.0	11.6	11.4	11.5	15.2	14.9	15.1			
15	7.1	6.9	7.0	11.8	11.6	11.7	15.5	15.0	15.3			
16	7.3	7.1	7.2	12.2	11.8	12.0	---	---	---			
17	7.5	7.1	7.3	12.6	12.3	12.4	---	---	---			
18	7.8	7.4	7.6	12.8	12.6	12.7	---	---	---			
19	7.9	7.6	7.7	13.0	12.7	12.8	---	---	---			
20	8.0	7.8	7.8	13.1	12.8	12.9	---	---	---			
21	8.0	7.8	7.9	13.4	13.1	13.3	---	---	---			
22	8.0	7.9	8.0	13.5	13.3	13.4	---	---	---			
23	8.1	7.9	8.0	13.4	13.2	13.4	---	---	---			
24	8.4	8.1	8.2	13.5	13.2	13.3	---	---	---			
25	8.5	8.3	8.4	13.5	13.3	13.4	---	---	---			
26	8.8	8.2	8.5	13.3	13.0	13.1	---	---	---			
27	9.2	8.6	8.8	13.6	13.2	13.5	---	---	---			
28	9.3	8.7	9.1	13.9	13.7	13.8	---	---	---			
29	9.3	9.1	9.2	14.1	13.9	14.1	---	---	---			
30	9.5	9.3	9.4	14.2	14.1	14.2	---	---	---			
31	9.6	9.4	9.5	---	---	---	---	---	---			
MONTH	9.6	5.3	7.2	14.2	9.5	12.2	15.5	13.7	14.4			

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	14.6	14.3	14.4	14.3	14.2	14.2	12.8	12.2	12.5
2	---	---	---	14.8	14.5	14.6	14.4	14.1	14.2	12.3	12.0	12.1
3	---	---	---	14.6	14.2	14.4	14.2	14.0	14.1	12.2	12.0	12.1
4	---	---	---	14.4	14.2	14.3	14.0	13.9	13.9	12.4	12.2	12.3
5	---	---	---	14.3	14.2	14.3	13.9	13.8	13.8	12.4	12.4	12.4
6	---	---	---	14.3	14.1	14.2	14.3	13.5	13.7	12.8	12.4	12.6
7	---	---	---	14.2	14.0	14.1	15.5	14.4	15.3	13.2	12.8	13.0
8	---	---	---	14.3	14.0	14.2	15.4	15.2	15.3	13.2	12.8	13.0
9	---	---	---	14.3	14.1	14.2	15.1	15.0	15.0	12.8	12.4	12.7
10	---	---	---	14.2	14.0	14.1	15.0	14.8	14.9	12.5	12.1	12.3
11	---	---	---	14.2	14.0	14.1	14.8	14.7	14.7	12.1	12.1	12.1
12	---	---	---	14.1	13.8	13.9	14.6	14.4	14.5	12.2	12.1	12.2
13	---	---	---	14.2	14.0	14.1	14.3	13.9	14.1	12.3	12.0	12.1
14	---	---	---	14.0	13.8	13.9	13.8	13.4	13.6	12.0	11.8	11.9
15	---	---	---	14.2	13.8	14.0	13.3	13.1	13.2	12.1	11.8	11.9
16	---	---	---	14.2	14.0	14.1	13.2	13.0	13.1	12.3	12.1	12.2
17	14.5	14.3	14.4	14.1	13.9	13.9	13.4	13.2	13.3	12.4	12.2	12.3
18	14.4	14.3	14.3	13.9	13.8	13.9	13.3	13.3	13.5	12.6	12.4	12.4
19	14.6	14.4	14.5	14.0	13.8	13.9	13.8	13.7	13.8	12.5	12.3	12.4
20	14.7	14.6	14.6	14.2	13.9	14.1	13.9	13.7	13.8	12.4	12.1	12.3
21	14.7	14.5	14.6	14.4	14.2	14.3	13.7	13.3	13.5	12.2	11.9	12.1
22	14.6	14.5	14.5	14.8	14.3	14.6	13.4	13.3	13.4	12.0	11.5	11.8
23	14.5	14.3	14.4	14.9	14.7	14.9	13.7	13.4	13.6	11.6	11.1	11.4
24	14.3	14.1	14.2	14.7	14.6	14.7	13.7	13.5	13.6	11.4	10.7	11.0
25	14.4	14.1	14.3	14.8	14.6	14.7	13.5	12.9	13.1	10.8	10.2	10.4
26	14.3	13.9	14.1	14.7	14.5	14.6	13.5	12.9	13.1	10.1	9.7	9.9
27	14.0	13.9	13.9	14.6	14.5	14.6	13.8	13.5	13.7	10.0	9.5	9.8
28	14.2	13.9	14.0	15.0	14.5	14.8	13.7	13.3	13.5	9.6	9.3	9.4
29	14.5	14.1	14.3	14.9	14.6	14.8	13.3	13.0	13.1	9.3	8.9	9.1
30	---	---	---	14.6	14.5	14.5	13.0	12.7	12.9	9.6	8.7	9.0
31	---	---	---	14.5	14.3	14.4	---	---	---	11.5	9.7	10.7
MONTH	14.7	13.9	14.3	15.0	13.8	14.3	15.5	12.7	13.9	13.2	8.7	11.7

BEST COPY AVAILABLE

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.5	11.4	11.5	8.3	7.8	8.1	6.8	6.0	6.3	6.0	5.4	5.7
2	11.4	11.1	11.2	8.2	7.8	8.0	7.2	6.1	6.5	5.7	4.9	5.3
3	11.1	10.7	10.9	8.0	7.7	7.9	7.3	6.3	6.7	5.3	4.7	5.0
4	10.8	10.6	10.7	7.7	7.1	7.5	6.9	6.3	6.7	4.8	4.3	4.5
5	10.7	10.1	10.4	7.4	6.8	7.0	7.0	6.3	6.6	4.4	3.9	4.1
6	10.1	9.7	9.9	7.4	6.2	6.9	6.7	6.2	6.5	4.5	4.0	4.2
7	9.7	9.4	9.6	6.8	6.1	6.5	6.5	5.9	6.3	4.7	4.1	4.4
8	9.5	9.1	9.3	6.8	6.6	6.7	8.6	6.0	7.5	4.4	4.2	4.3
9	9.1	8.7	8.9	7.0	6.4	6.7	7.2	5.8	6.4	5.0	4.1	4.7
10	8.8	8.4	8.6	7.4	6.6	6.9	6.6	5.7	6.1	5.5	4.8	5.2
11	9.6	8.3	8.7	7.5	6.9	7.1	6.6	5.3	6.0	5.6	5.1	5.3
12	9.5	8.4	8.9	7.7	7.1	7.4	6.1	5.1	5.7	6.2	5.5	5.8
13	8.6	8.1	8.4	7.3	7.0	7.2	5.9	4.7	5.6	5.8	5.5	5.7
14	8.1	7.5	7.8	7.4	6.9	7.1	5.5	4.3	5.1	6.0	5.5	5.7
15	8.8	8.1	8.5	7.3	6.8	7.0	5.2	4.0	4.5	6.1	5.8	5.9
16	8.3	7.6	8.0	7.0	6.6	6.7	4.9	4.1	4.6	5.8	5.5	5.7
17	7.9	7.7	7.8	6.9	6.4	6.6	7.6	3.7	5.9	6.0	5.7	5.8
18	8.1	7.7	7.9	6.6	5.8	6.3	6.8	4.3	5.8	6.3	5.8	6.1
19	7.9	7.6	7.8	6.3	5.5	5.8	5.7	3.8	4.7	6.5	5.9	6.2
20	8.2	7.6	7.9	5.7	5.0	5.4	5.3	4.2	4.7	7.0	6.2	6.6
21	8.3	7.2	7.7	5.5	4.9	5.1	5.0	4.2	4.6	7.1	6.6	6.8
22	7.6	6.9	7.4	5.5	4.7	5.0	4.7	4.0	4.3	6.9	6.7	6.8
23	7.3	6.3	6.8	5.0	4.0	4.5	4.6	4.3	4.4	6.8	6.3	6.7
24	6.3	5.7	6.1	5.6	4.1	4.9	5.4	4.5	5.0	7.1	6.5	6.8
25	6.4	6.1	6.2	5.4	4.8	5.1	5.6	5.1	5.3	7.2	6.7	6.9
26	6.9	6.3	6.6	---	---	---	5.1	4.3	4.6	7.5	6.6	7.0
27	8.0	6.9	7.5	---	---	---	5.0	4.8	4.9	7.5	7.1	7.3
28	8.6	7.9	8.3	7.2	6.9	7.0	5.1	4.7	4.9	7.5	6.9	7.2
29	8.6	8.0	8.4	7.0	6.1	6.7	4.9	4.3	4.7	7.2	6.9	7.1
30	8.5	8.2	8.3	6.5	6.1	6.3	4.5	4.1	4.3	7.1	6.9	7.1
31	---	---	---	6.6	6.1	6.3	6.0	4.6	5.4	---	---	---
MONTH	11.5	5.7	8.5	8.3	4.0	6.5	8.6	3.7	5.5	7.5	3.9	5.9
YEAR	15.5	3.7	10.0									

BEST COPY AVAILABLE

01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME

LOCATION.--Lat 44°18'13", long 70°32'24", Oxford County, Hydrologic Unit 01040002, on island 50 ft upstream from Snow Falls and 6 mi upstream from South Paris.

DRAINAGE AREA.--73.5 mi^2.

PERIOD OF RECORD.--September 1913 to April 1924, October 1931 to current year.

REVISED RECORDS.--WSP 1301: 1915-23(M): WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 447.00 ft, National Geodetic Vertical Datum of 1929. Prior to Apr. 30, 1924, to Sept. 27, 1984 water-stage recorder at site 1.0 mi downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--63 years (water years 1914-23, 1932-84), 140 ft^3/s (25.08 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft^3/s Mar. 27, 1953, gage height, 12.41 ft, from rating curve extended above 2,800 ft^3/s, verified by computation of flow over dam at South Paris; minimum, 1.0 ft^3/s Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 25	2400	1630	6.79	Apr. 06	0815	* 5890	10.47
Dec. 14	1445	2100	7.39	May 31	2115	2400	7.73

Minimum discharge, 6.6 ft^3/s Sept. 28-30, gage height, 1.74 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	22	294	110	53	221	238	210	1720	201	20	13
2	10	20	245	99	52	176	286	186	1090	144	19	11
3	9.9	20	208	95	50	153	336	167	1100	107	18	10
4	9.5	40	165	89	74	137	401	283	626	85	16	9.8
5	9.1	418	163	85	111	124	622	373	458	77	14	9.0
6	16	796	162	80	105	130	4220	276	331	132	13	8.4
7	22	398	603	77	92	120	1820	231	279	172	13	11
8	16	251	483	73	79	105	1100	206	244	289	21	14
9	14	178	295	71	73	97	750	324	202	181	19	12
10	12	138	244	68	63	91	523	259	160	137	16	10
11	11	146	188	65	62	85	438	214	134	108	15	9.2
12	10	217	155	63	67	79	478	247	107	136	15	9.5
13	153	211	477	62	79	72	560	422	84	107	14	9.9
14	134	152	1750	61	84	73	559	356	91	80	19	9.6
15	80	122	1220	59	148	94	519	334	166	64	25	9.4
16	55	121	752	58	386	98	504	267	119	62	26	9.2
17	43	461	502	57	349	118	842	227	92	72	19	9.1
18	36	345	353	55	293	123	710	194	78	57	15	8.5
19	31	242	280	54	210	180	558	173	89	64	12	7.8
20	26	185	217	53	165	528	469	190	74	52	27	7.5
21	23	284	150	52	140	568	389	169	57	51	29	9.0
22	21	486	130	51	120	659	316	148	50	85	20	9.6
23	20	309	115	50	110	626	278	137	44	57	19	9.3
24	40	244	110	53	120	448	299	215	38	44	51	8.6
25	58	816	100	77	300	330	509	170	281	33	47	8.2
26	43	1220	98	82	695	282	394	138	620	26	29	7.8
27	36	559	95	71	527	255	304	116	444	24	21	7.3
28	32	348	90	65	284	241	268	96	273	33	17	6.8
29	29	334	151	59	266	236	246	350	201	36	15	6.6
30	25	384	149	57	---	215	222	1150	263	27	13	6.6
31	23	---	120	55	---	201	---	1840	---	21	13	---
TOTAL	1058.5	9467	10064	2106	5157	6865	19158	9668	9515	2764	630	277.7
MEAN	34.1	316	325	67.9	178	221	639	312	317	89.2	20.3	9.26
MAX	153	1220	1750	110	695	659	4220	1840	1720	289	51	14
MIN	9.1	20	90	50	50	72	222	96	38	21	12	6.6
CFSM	.45	4.17	4.29	.90	2.35	2.92	8.43	4.12	4.18	1.18	.27	.12
IN.	.52	4.65	4.94	1.03	2.53	3.37	9.40	4.74	4.67	1.36	.31	.14

CAL YR 1983 TOTAL 72137.3 MEAN 198 MAX 2070 MIN 7.4 CFSM 2.61 IN. 35.40
WTR YR 1984 TOTAL 76730.2 MEAN 210 MAX 4220 MIN 6.6 CFSM 2.77 IN. 37.66

BEST COPY AVAILABLE

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, Hydrologic Unit 01040002, on right bank 1.5 mi downstream from Little Androscoggin River and 2.1 mi downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,263 mi².

PERIOD OF RECORD.--Discharge: October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.
Water-quality records: Water years 1966-75.

REVISED RECORDS.--WSP 781: 1930, 1933-34. WSP 1301: 1932-36: WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, Umbagog, Auburn, and Thompson Lakes and Gulf Island Pond (Reservoirs in Androscoggin River Basin) with major regulation at Errol Dam 136 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years, 6,192 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft³/s Mar. 20, 1936, gage height, 27.57 ft from rating curve extended above 76,000 ft³/s on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 ft³/s Sept. 28, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 62,500 ft³/s Apr. 7, gage height, 17.27 ft; minimum daily, 769 ft³/s Oct. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2310	3160	13400	6380	4640	8570	8240	15300	48500	8330	3880	2200
2	1940	3070	10900	6050	4330	7950	9300	15900	44800	6750	3820	1990
3	2560	3060	9340	5810	4030	7510	9780	13100	39500	6640	3740	1980
4	2510	3410	7980	5550	4130	6320	10800	12400	36800	6830	2660	2790
5	2480	7160	6470	5650	5050	6080	13700	17700	30900	4070	2240	2880
6	2790	19000	7120	5600	5430	5900	45400	17700	24300	2580	2910	2770
7	3110	14700	12700	5850	5250	5960	59600	14600	20200	4920	3000	2760
8	2540	10200	14200	5740	5140	5500	43600	13600	17100	7650	2990	1960
9	2580	7980	10500	5410	4950	5490	33700	13300	14100	9580	2850	1760
10	3360	6680	9150	5190	4660	5470	26600	14300	10900	7610	2770	2570
11	3220	7580	8210	5110	4570	5000	21400	11600	9670	7010	2120	2830
12	2670	9490	6860	4960	4560	4640	17900	10800	8510	7140	1940	3250
13	3590	11400	9900	4850	4730	4940	18100	14000	7340	6670	2640	3150
14	3690	8880	29100	4620	5300	4780	19400	16100	7590	6500	2780	2970
15	3850	7170	38200	4770	5620	5160	20700	16000	6830	6080	2810	1970
16	3910	7450	28000	4730	7490	5410	20200	15200	7150	4510	2860	1160
17	4160	9910	20600	4710	9530	5620	23600	13800	6930	5390	3260	2760
18	3740	13400	16500	4630	10300	5500	27700	12000	6350	5440	2270	2850
19	3320	10200	14200	4600	9040	5770	27900	10800	6860	5550	1980	2800
20	3200	7770	10000	4840	9120	8230	25600	9160	6860	5920	2860	2840
21	2700	8370	7410	4730	8890	14900	22600	8240	6770	4260	2800	2910
22	1920	11800	7820	4620	8490	16200	20300	7560	6030	4370	2780	2420
23	769	12600	7230	4630	7660	16500	17100	7160	4260	4900	2830	2180
24	2930	10300	7020	4370	7870	15200	17000	7750	1020	4490	2930	2710
25	3120	15200	6640	4250	8860	13100	22100	9710	4980	3930	2000	2780
26	3020	29400	6700	4540	13300	11200	23600	7990	8300	4220	2300	2800
27	3310	22600	6590	4430	13700	10000	19600	7350	10800	3770	2880	2770
28	3250	15800	6560	4560	12100	9410	17800	7190	9520	2720	3030	2840
29	2400	13800	7170	4430	8650	9210	16200	8930	7900	2370	2920	2170
30	1290	14300	6960	4280	---	8580	15200	22100	7270	3590	2810	1460
31	3310	---	7040	4370	---	7820	---	38300	---	3870	2890	---
TOTAL	89569	325840	360420	154260	207390	251970	674720	409140	428040	167660	86550	75280
MEAN	2889	10860	11630	4976	7151	8126	22490	13200	14270	5408	2792	2509
MAX	4160	29400	38200	6380	13700	16500	59600	38300	48500	9580	3880	3250
MIN	769	3060	6470	4250	4030	4640	8240	7160	1020	2370	1940	1160

CAL YR 1983 TOTAL 2938165 MEAN 8050 MAX 39900 MIN 622
WTR YR 1984 TOTAL 3230789 MEAN 8827 MAX 59600 MIN 769

BEST COPY AVAILABLE

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°55'03", long 69°58'25", Cumberland County, Hydrologic Unit 01060001, on right bank at cable suspended footbridge, 530 ft downstream from railroad bridge at Brunswick.

DRAINAGE AREA.--3,434 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1975 to September 1981.
WATER TEMPERATURES: November 1975 to September 1981.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

REMARKS.--Water-discharge records for Androscoggin River at Auburn (station 01059000) used for computation of mean daily discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 251 micromhos Dec. 15, 1980; minimum, 36 micromhos Apr. 4, 1976.
WATER TEMPERATURES: Maximum (water years 1976-80), 29.5°C Aug. 5, 1979; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	DISCHARGE, IN CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 03...	1030	3200	138	6.7	12.5	8.0	3.0	772	11.5	96	460	320
DEC 08...	1200	14800	65	6.8	-2.0	0.5	2.5	770	14.6	100	1600	2000
FEB 29...	1500	9040	73	7.0	8.0	0.0	3.5	748	14.8	103	700	230
MAY 02...	1200	16600	48	7.0	10.0	10.0	1.5	767	12.4	109	58	60
JUN 12...	1400	8890	57	7.1	20.0	21.5	2.0	780	9.1	101	720	K12
SEP 06...	1100	2900	141	7.1	16.5	20.0	1.0	775	8.5	92	170	K25

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
NOV 03...	23	7.1	1.2	18	1.3	16	18	21	<0.1	4.9	90	82
DEC 08...	14	4.2	0.8	7.0	0.8	11	9.4	8.3	<0.1	4.8	51	42
FEB 29...	15	4.5	0.8	8.0	0.9	9.0	8.7	10	<0.1	4.8	50	44
MAY 02...	11	3.3	0.6	4.4	0.6	6.0	6.9	5.6	<0.1	4.2	34	30
JUN 12...	13	4.0	0.7	4.5	0.7	8.0	6.9	6.1	<0.1	4.1	48	32
SEP 06...	21	6.5	1.1	18	1.4	16	16	22	0.1	4.0	91	79

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BEST COPY AVAILABLE

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
NOV 03...	0.31	0.18	0.23	0.5	0.05	0.02	<0.01	100	1	19.00
DEC 08...	0.18	0.04	0.05	0.9	0.04	0.03	<0.01	--	<1	19.00
FEB 29...	0.15	0.07	0.09	0.9	<0.01	<0.01	<0.01	100	1	13.00
MAY 02...	0.11	0.04	0.05	0.4	<0.01	<0.01	<0.01	100	<1	12.00
JUN 12...	<0.1	0.10	0.13	0.7	0.03	<0.01	<0.01	--	--	--
SEP 06...	0.2	0.02	0.03	0.4	0.03	0.02	<0.01	--	--	--

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 03...	0.50	<1	<1	<3.00	2	200	2	10	52	0.1
DEC 08...	<0.50	<1	--	<3.00	2	120	1	<4.00	32	<0.1
FEB 29...	<0.50	<1	<1	<3.00	<1	90	2	<4.00	37	<0.1
MAY 02...	<1.00	<1	10	<3.00	4	70	3	<4.00	25	<0.1
JUN 12...	--	--	--	--	--	--	--	--	--	--
SEP 06...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 03...	<10	<1	<1	<1	30	6.0	4.00	4	35	100
DEC 08...	<10	2	<1	--	20	<6.0	7.00	10	400	76
FEB 29...	<10	<1	<1	<1	20	<6.0	20	3	73	50
MAY 02...	<10	2	<1	<1	20	<6.0	5.00	3	134	67
JUN 12...	--	--	--	--	--	--	--	3	72	42
SEP 06...	--	--	--	--	--	--	--	24	188	--

BEST COPY AVAILABLE

Reservoirs in Androscoggin River Basin

01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft³ in top 4.0 ft of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.

01051000 MOOSELOOKMEGUNTIC LAKE at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 ft³ between gage heights 8.3 ft and 20.5 ft. Gage-height record furnished by Union Water Power Co.

01051500 UPPER AND LOWER RICHARDSON LAKES on Rapid River, at Middle Dam, Maine, used for power, has usable capacity of 5,691,500,000 ft³ between gage heights 3.0 ft and 20.5 ft. Gage-height record furnished by Union Water Power Co.

01052000 AZISCOHOS LAKE on Magalloway River in Lincoln Township, 3 mi east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 ft³ between elevations 1,490.0 ft and 1,535.0 ft. Elevation record furnished by Union Water Power Co.

01053000 UMBAGOG LAKE on Androscoggin River at Errol Dam, 0.6 mi northeast of Errol, NH, used for power, has usable capacity of 3,080,160,000 ft³ between gage heights 5.5 ft and 15.0 ft. Gage-height record furnished by Union Water Power Co.

01056000 GULF ISLAND POND on Androscoggin River, 3 mi upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 ft³ in top 10 ft of pond below elevation 262.0 ft. Elevation record furnished by Central Maine Power Co.

01056500 LAKE AUBURN on outlet stream to Androscoggin River at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 ft³ between elevations 254.7 ft and 260.7 ft. Elevation record furnished by Auburn Water District.

01058000 THOMPSON LAKE on short outlet stream to Little Androscoggin River at Oxford, Maine, used for process water, has usable capacity of 950,000,000 ft³ between gage heights 95.0 ft and 100.0 ft. Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1983	863	4300	3362	6338
OCT. 31	727	3450	1350	5712
NOV. 30	1031	4815	1095	7262
DEC. 31	1031	6190	1010	8440
JAN. 31, 1984	670	3416	1245	7080
FEB. 29	418	2702	601	5267
MAR. 31	670	3042	814	2968
APR. 30	1380	6296	5652	6856
MAY 31	1701	8586	5729	9950
JUNE 30	1339	8298	5614	9670
JULY 31	1299	7259	5031	9314
AUG. 31	1115	6083	3510	7978
SEPT. 30	670	3756	3751	4825

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1983	1740	2333	408	1740
OCT. 31	1740	2415	364	1656
NOV. 30	3002	2490	616	1717
DEC. 31	2632	2484	604	1624
JAN. 31, 1984	2243	2459	616	1600
FEB. 29	1686	2499	652	1696
MAR. 31	1284	2492	628	1649
APR. 30	2729	2483	604	1788
MAY 31	3760	2483	688	1894
JUNE 30	2612	2493	592	1860
JULY 31	2710	2400	556	1769
AUG. 31	1884	2304	474	1681
SEPT. 30	1996	2464	386	1588

NOTE.--Contents of Gulf Island Pond at 2400, Thompson Lake at 0800. Contents of all others at 0700 on first day of following month.

BEST COPY AVAILABLE

01060000 ROYAL RIVER AT YARMOUTH, ME

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, Hydrologic Unit 01060001, on right bank 150 ft upstream from East Main Street bridge in Yarmouth.

DRAINAGE AREA.--141 mi^2.

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft, from topographic map.

REMARKS.--Records good except those for winter period which are fair. Some diurnal fluctuation at low flow caused by mill upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--35 years, 281 ft^3/s (27.06 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft^3/s Mar. 13, 1977, gage height, 8.46 ft, from rating curve extended above 5,200 ft^3/s; minimum, 2.3 ft^3/s July 23, 24, 1980, gage height, 0.48 ft,caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s and maximums (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 05	2300	1800	3.64	Feb. 26	2000	2260	4.04
Nov. 17	0400	1910	3.74	Mar. 22	1900	1710	3.56
Nov. 26	0800	3470	4.93	Apr. 06	2000	*5460	6.19
Dec. 07	2100	2770	4.44	Apr. 25	1500	2080	3.89
Dec. 14	1700	3590	5.01	June 01	1000	4900	5.85
Feb. 16	----	1650	ice jam				

Minimum discharge, 32 ft^3/s Oct. 2, 10-12, gage height, 1.02 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	48	664	285	130	681	568	322	4680	176	86	60
2	35	47	466	250	125	501	680	291	3610	149	86	58
3	35	48	379	225	125	385	731	263	2840	128	82	56
4	35	142	322	205	180	305	767	546	1590	114	76	56
5	34	1410	282	195	325	246	1360	1100	1020	118	73	58
6	35	1670	313	190	375	229	4800	708	696	295	71	55
7	36	908	2380	180	300	200	4450	450	495	335	70	54
8	35	402	2250	170	245	185	2420	388	408	547	69	52
9	34	241	1130	165	210	165	1340	844	346	348	75	52
10	33	179	724	160	185	150	916	653	289	235	72	51
11	32	670	434	154	178	140	721	426	246	183	71	52
12	33	994	292	150	171	125	648	478	212	231	74	62
13	293	627	1250	145	194	117	617	1190	189	200	68	72
14	313	365	3250	145	225	118	570	1050	177	146	60	64
15	128	254	2850	140	440	126	519	1160	173	123	95	61
16	88	796	1540	135	1500	160	648	816	156	176	99	62
17	70	1870	933	130	1410	275	1290	528	144	559	84	61
18	61	1150	616	130	970	368	967	403	138	345	70	57
19	56	488	438	130	655	440	820	345	138	433	64	54
20	51	323	340	125	705	927	729	327	135	299	104	51
21	47	656	275	125	860	1140	575	302	120	194	119	49
22	46	1310	235	120	625	1520	461	268	110	150	94	48
23	46	797	230	120	470	1560	393	241	103	128	93	50
24	74	453	220	120	559	1230	760	279	96	116	101	46
25	123	1950	210	125	920	907	2010	245	178	103	86	48
26	93	3200	205	200	1960	711	1500	217	722	93	73	51
27	73	1830	200	175	1680	595	839	301	566	91	67	45
28	64	919	200	160	1010	533	518	285	345	119	64	45
29	59	815	550	150	705	509	409	970	239	124	62	45
30	53	969	425	140	---	406	354	3080	202	102	63	45
31	50	---	335	135	---	409	---	3570	---	92	62	---
TOTAL	2199	25531	23938	4979	17437	15363	33380	22046	20363	6452	2452	1670
MEAN	70.9	851	772	161	601	496	1113	711	679	208	79.1	54.0
MAX	313	3200	3250	285	1960	1560	4800	3570	4680	559	119	72
MIN	32	47	200	120	125	117	354	217	96	91	62	45
CFSM	.50	6.04	5.48	1.14	4.26	3.52	7.89	5.04	4.82	1.48	.56	.38
IN.	.58	6.74	6.32	1.31	4.60	4.05	8.81	5.82	5.37	1.70	.65	.43

CAL YR 1983	TOTAL	165602	MEAN	454	MAX	6160	MIN	32	CFSM	3.22	IN.	43.69
WTR YR 1984	TOTAL	175760	MEAN	480	MAX	4800	MIN	32	CFSM	3.40	IN.	46.37

BEST COPY AVAILABLE

01064000 PRESUMPSCOT RIVER AT OUTLET OF SEBAGO LAKE, ME

LOCATION.--Lat 43°49'03", long 70°27'01", Cumberland County, Hydrologic Unit 01060001, at dam of hydroelectric plant at Eel Weir Falls 1.0 mi downstream from lake outlet.

DRAINAGE AREA.--441 mi².

PERIOD OF RECORD.--January 1887 to current year.

REVISED RECORDS.--WSP 1301: 1920-50 (adjusted monthly runoff). WDR ME-81-1: Drainage area.

GAGES.--Nonrecording gages in forebay and tailrace of hydroelectric plant at Eel Weir Falls and at dam on outlet of Sebago Lake.

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gates at Eel Weir hydroelectric plant. Water wasted at rare intervals through gates in dam on outlet of Sebago Lake; flow computed from records of gate openings. Water diverted by Portland Water District and leakage through dam, totaling about 40 ft³/s, not included in figures of daily discharge. Flow regulated by Long Lake and Sebago Lake, surface area, 45.6 mi², which have a combined usable capacity of 11,000,000,000 ft³.

COOPERATION.--Records furnished by S. D. Warren Co.

AVERAGE DISCHARGE.--97 years, 665 ft³/s.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	610	600	831	831	1320	1320	1320	2150	3390	831	400	667
2	610	600	831	819	1320	1320	1320	1490	3390	438	400	667
3	600	588	831	819	1320	1320	1320	1490	3390	432	400	667
4	600	588	831	819	1320	1320	1320	1490	3390	432	400	667
5	600	588	831	819	1320	1320	340	1490	3390	432	671	667
6	588	600	831	831	1320	1320	340	1490	3390	818	671	667
7	588	600	831	831	1320	1320	2660	1490	3390	818	671	667
8	588	600	831	831	1320	1320	2660	600	3390	818	671	670
9	588	600	831	998	1320	1320	3400	600	3390	432	671	670
10	588	600	831	998	1320	1320	3400	600	3150	831	671	670
11	588	600	831	985	1320	1320	3400	600	3150	432	671	670
12	588	600	831	998	1320	1320	3310	600	3150	438	671	670
13	588	600	831	998	1320	1320	3310	600	3150	438	671	670
14	588	600	831	1320	1320	1320	3310	600	3150	818	671	670
15	588	600	831	1320	1320	1320	1140	600	3150	818	671	670
16	600	600	831	1320	1320	1320	500	1500	3150	415	671	670
17	600	600	819	1330	1320	1320	2320	1500	3150	415	671	655
18	600	600	819	1320	1320	1320	2320	1500	655	423	671	655
19	600	600	819	1330	1320	1650	2650	1500	655	423	671	670
20	588	600	819	1320	1320	831	2640	1500	655	838	671	670
21	588	600	819	1320	1320	1320	2640	1500	655	829	671	670
22	588	600	831	1320	1320	1320	2640	1500	655	829	671	670
23	588	600	831	1320	1320	1320	2640	1500	655	400	671	670
24	588	600	831	1320	1320	1320	1490	552	655	423	671	655
25	588	600	831	1330	1320	1320	2320	1490	655	423	671	670
26	600	833	831	1320	1320	1320	2320	1490	655	423	671	670
27	600	833	831	1320	1320	1320	1820	819	655	423	671	670
28	600	833	831	1320	1320	1320	1820	819	655	423	671	670
29	600	818	831	1320	1320	1320	1820	1650	600	423	671	670
30	600	818	831	1320	---	1320	1820	819	600	423	671	670
31	600	---	819	1330	---	1320	---	819	---	423	671	---
TOTAL	18428	19099	25689	35377	38280	40761	64310	36348	64115	17182	19717	20034
MEAN	594	637	829	1141	1320	1315	2144	1173	2137	554	636	668
MAX	610	833	831	1330	1320	1650	3400	2150	3390	838	671	670
MIN	588	588	819	819	1320	831	340	552	600	400	400	655

CAL YR 1983	TOTAL	314191	MEAN	861	MAX	2650	MIN	63
WTR YR 1984	TOTAL	399340	MEAN	1091	MAX	3400	MIN	340

BEST COPY AVAILABLE

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°43'28", long 70°18'12", Cumberland County, Hydrologic Unit 01060001, on right bank 50 ft upstream from bridge on Blackstrap Road, 0.1 mi downstream from Maine Turnpike, 0.6 mi downstream from Meader Brook, 0.9 mi upstream from Piscataqua River, and 1.5 mi south of West Falmouth.

DRAINAGE AREA.--598 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WRD ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 11.15 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Sebago Lake and many small powerplants upstream.

AVERAGE DISCHARGE.--9 years, 1086 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s Mar. 14, 1977, gage height, 21.11 ft; minimum daily, 39 ft^3/s July 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,910 ft^3/s Apr. 6, gage height 17.67; minimum daily, 485 ft^3/s Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	726	762	1740	1390	1520	2140	2520	2530	6430	1030	495	735
2	716	686	1460	1240	1490	1920	2590	2340	6540	605	495	730
3	735	653	1320	1170	1500	1800	2570	2080	6320	570	490	730
4	729	1460	1240	1100	1740	1700	2580	2760	4960	560	485	730
5	641	4880	1190	1070	1990	1660	3550	3010	4460	565	550	735
6	701	3540	1220	1070	2030	1650	8010	2640	4290	1150	640	730
7	686	1440	4430	1090	1900	1640	5240	2510	4160	1190	745	725
8	665	1110	2770	1090	1730	1610	4670	2420	4050	1430	745	730
9	650	1000	1670	1090	1640	1560	3910	2240	4110	820	755	730
10	635	957	1510	1170	1540	1520	4220	1980	3980	1090	750	725
11	644	2050	1380	1210	1550	1490	4290	1760	3760	635	750	730
12	665	2110	1240	1250	1550	1470	4290	1610	3590	695	750	740
13	1370	1530	2770	1510	1600	1460	4180	2110	3180	660	745	750
14	1120	1270	5280	1540	1700	1460	4160	2040	3110	970	760	740
15	738	1280	2910	1540	2400	1500	4090	2260	3080	955	775	740
16	698	1760	1930	1530	3940	1530	3050	1960	3000	610	780	740
17	680	3350	1620	1520	2870	1790	3250	1970	2970	1020	765	720
18	698	1940	1430	1470	2360	1960	3770	1950	2550	805	750	720
19	665	1310	1340	1430	2090	2130	3710	1880	810	905	740	715
20	707	1270	1190	1470	2400	2990	3840	1860	805	1170	785	710
21	722	1730	1150	1460	2360	3120	3650	1840	790	1040	805	710
22	695	2320	1130	1470	2040	3340	3460	1800	775	995	775	705
23	665	1630	1240	1470	1910	3030	3230	1770	770	540	775	710
24	803	1390	1230	1510	2090	2720	3430	865	760	550	785	705
25	857	3760	1160	1650	2420	2610	4280	1760	855	540	765	725
26	726	4060	1140	1670	3710	2540	3860	1730	1460	525	750	725
27	722	2170	1110	1610	2640	2440	3300	1150	1280	525	745	720
28	719	1660	1160	1580	2050	2390	2730	1140	1040	555	740	720
29	692	1960	2630	1540	1510	2360	2660	2500	865	560	740	720
30	750	2080	1900	1530	---	2250	2600	5570	825	535	740	720
31	873	---	1520	1530	---	2360	---	4670	---	525	740	---
TOTAL	23093	57118	55010	42970	60270	64140	111690	68705	85575	24325	22110	21765
MEAN	745	1904	1775	1386	2078	2069	3723	2216	2853	785	713	726
MAX	1370	4880	5280	1670	3940	3340	8010	5570	6540	1430	805	750
MIN	635	653	1110	1070	1490	1460	2520	865	760	525	485	705

CAL YR 1983 TOTAL 515482 MEAN 1412 MAX 6950 MIN 467
WTR YR 1984 TOTAL 636771 MEAN 1740 MAX 8010 MIN 485

BEST COPY AVAILABLE

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-74; 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1976 to current year.
pH: July 1976 to current year.
WATER TEMPERATURES: July 1976 to current year.
DISSOLVED OXYGEN: July 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1976.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A dissolved oxygen of 1.6 mg/L was observed July 9, 1976.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 375 micromhos Jan. 8, 1979; minimum, 21 micromhos July 28, 1982.
pH: Maximum, 9.4 units Dec. 7, 1977; minimum, 5.3 units May 22, 1976.
WATER TEMPERATURES: Maximum, 29.0°C July 21, 1977, Aug. 8, 9, 1980; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum recorded, 15.0 mg/L Jan 30, 1983; minimum, 4.4 mg/L Aug. 8, 1980.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 165 micromhos July 17; minimum, 43 micromhos June 14.
pH: Maximum, 7.4 units June 22, 23; minimum, 6.4 units Nov. 5, 6.
WATER TEMPERATURES: Maximum, 27.0°C, Aug. 8; minimum, 0.0°C on many days during winter period.
DISSOLVED OXYGEN.--Maximum recorded, 14.2 mg/L Mar. 5; minimum recorded, 6.6 mg/L July 17.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV												
02...	1330	677	108	6.8	22.5	9.0	5.6	782	11.2	94	560	K22000
DEC												
09...	1200	1570	75	6.9	8.0	1.5	3.9	780	14.1	98	K500	1000
FEB												
29...	1200	1340	100	7.0	7.0	1.0	7.7	747	13.8	99	360	160
APR												
26...	1300	3820	57	6.8	16.5	6.0	2.9	770	13.0	103	210	50
JUN												
12...	1200	3600	44	6.9	22.5	19.5	1.8	777	9.7	104	390	35
SEP												
05...	1500	725	83	7.3	20.0	21.0	0.1	770	8.7	97	2900	20

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV												
02...	18	5.9	0.9	14	0.9	18	10	15	0.1	2.7	65	61
DEC												
09...	14	4.4	0.8	8.4	0.9	15	8.0	9.2	<0.1	3.9	52	45
FEB												
29...	16	4.8	0.9	12	1.0	14	7.5	16	<0.1	3.4	60	54
APR												
26...	12	3.6	0.7	5.5	0.7	10	5.9	6.8	0.1	3.2	42	33
JUN												
12...	10	3.1	0.6	3.2	0.5	8.0	4.9	4.2	<0.1	2.2	37	24
SEP												
05...	15	4.8	0.7	8.6	0.7	13	6.7	12	0.1	1.8	48	43

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BEST COPY AVAILABLE

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
NOV										
02...	0.12	0.08	0.1	0.5	0.04	0.01	<0.01	50	1	16.00
DEC										
09...	0.13	0.01	0.01	0.3	0.03	0.03	<0.01	--	1	19.00
FEB										
29...	0.13	<0.01	0.01	0.8	<0.01	0.04	<0.01	70	1	12.00
APR										
26...	0.12	0.05	0.06	0.2	0.02	0.03	<0.01	40	<1	12.00
JUN										
12...	--	0.01	0.01	0.3	0.03	<0.01	0.02	--	--	--
SEP										
05...	<0.1	0.01	0.01	0.5	0.02	0.02	0.02	--	--	--

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)
NOV										
02...	0.50	1	1	3.00	2	50	2	10	22	0.1
DEC										
09...	<0.50	<1	--	<3.00	4	80	2	<4.00	17	<0.1
FEB										
29...	<0.50	<1	<1	<3.00	<1	60	2	<4.00	25	<0.1
APR										
26...	<1.00	<1	<1	<3.00	1	60	1	<4.00	9	<0.1
JUN										
12...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV										
02...	10	1	1	1	30	6.0	7.00	7	12	92
DEC										
09...	<10	2	<1	--	20	<6.0	4.00	5	21	100
FEB										
29...	<10	<1	<1	<1	30	<6.0	10	7	25	74
APR										
26...	<10	1	<1	<1	20	<6.0	30	6	65	28
JUN										
12...	--	--	--	--	--	--	--	6	61	52
SEP										
05...	--	--	--	--	--	--	--	17	33	--

BEST COPY AVAILABLE

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	110	94	105	103	95	99	83	70	75	89	80	85
2	114	107	110	128	99	108	92	79	86	90	84	86
3	112	101	106	127	94	112	86	80	83	89	84	86
4	121	109	113	111	77	96	88	80	84	99	84	90
5	122	110	114	84	69	74	92	81	85	88	78	85
6	114	100	109	85	72	78	122	76	89	101	88	93
7	113	102	109	94	81	86	108	57	68	92	83	87
8	109	96	105	102	88	93	75	55	63	91	85	88
9	108	93	101	105	87	95	78	69	74	94	87	91
10	107	102	104	100	94	96	81	74	78	90	80	84
11	108	95	101	109	71	85	81	71	76	93	73	83
12	107	96	101	85	78	81	105	75	81	85	78	82
13	110	72	89	92	84	88	134	69	91	79	72	75
14	98	83	90	89	82	85	67	55	61	74	71	73
15	109	97	102	85	79	82	69	56	61	75	72	73
16	107	100	103	90	69	80	77	67	74	76	71	73
17	112	100	105	74	69	72	79	73	76	77	71	74
18	109	98	103	85	70	78	81	76	80	77	71	74
19	106	93	101	92	83	88	89	79	83	77	74	75
20	95	84	90	85	80	82	86	76	82	77	73	76
21	99	88	94	87	65	79	88	74	84	80	70	73
22	100	88	93	74	67	71	96	85	89	76	71	74
23	109	96	102	77	67	71	100	85	92	75	71	74
24	113	86	99	86	76	79	86	72	80	108	72	83
25	121	81	101	86	61	72	76	67	71	127	92	104
26	123	100	110	70	57	62	75	68	72	100	87	93
27	110	91	103	70	62	66	81	74	77	88	79	83
28	114	103	109	78	69	74	88	80	84	84	70	78
29	112	103	108	88	69	78	93	77	83	87	67	76
30	112	88	97	76	70	73	---	---	---	90	83	86
31	97	87	92	---	---	---	---	---	---	88	81	84
MONTH	123	72	102	128	57	83	134	55	79	127	67	82

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	85	80	83	84	70	75	---	---	---	62	59	61
2	81	74	79	74	69	72	70	59	66	68	60	64
3	98	69	80	74	69	72	66	63	65	70	66	68
4	124	90	104	74	66	72	66	61	64	83	63	69
5	98	86	91	76	68	72	74	61	65	67	63	65
6	106	89	95	87	69	77	61	49	53	69	64	67
7	91	86	89	79	66	73	54	50	52	70	66	68
8	88	83	85	73	63	71	---	---	---	84	60	69
9	88	80	84	75	61	71	---	---	---	107	76	85
10	85	79	81	76	72	75	---	---	---	89	79	83
11	83	75	79	77	72	75	---	---	---	105	87	94
12	88	76	81	75	73	74	---	---	---	129	99	109
13	86	81	84	76	70	73	---	---	---	97	84	89
14	92	81	84	73	69	70	51	49	50	99	81	91
15	90	74	83	77	66	72	55	48	50	86	81	84
16	73	65	67	---	---	---	77	55	65	93	83	86
17	76	66	71	---	---	---	68	53	61	93	71	83
18	81	75	77	---	---	---	55	52	54	76	63	71
19	80	74	77	---	---	---	56	53	55	68	63	66
20	85	75	79	---	---	---	58	51	55	66	62	64
21	80	74	77	---	---	---	57	54	56	66	64	65
22	79	75	77	---	---	---	55	52	54	69	62	66
23	---	---	---	59	52	55	60	53	56	72	66	68
24	---	---	---	62	56	59	72	56	61	84	63	69
25	---	---	---	64	58	61	59	52	57	83	67	74
26	79	67	70	66	59	62	61	53	57	76	63	67
27	76	69	73	65	61	63	64	58	60	74	66	69
28	86	73	78	66	60	63	65	62	63	72	66	69
29	117	80	101	65	61	63	62	59	61	73	62	69
30	---	---	---	69	62	65	62	59	61	63	55	59
31	---	---	---	---	---	---	---	---	---	71	60	64
MONTH	124	65	82	87	52	69	77	48	58	129	55	73

BEST COPY AVAILABLE

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	60	52	55	85	77	80	146	116	134	102	93	97
2	57	52	55	124	84	102	148	131	140	107	94	97
3	55	48	51	125	106	116	136	101	122	101	96	99
4	50	46	48	121	111	116	103	96	99	111	97	102
5	49	46	47	122	95	105	115	101	105	101	80	89
6	49	45	47	127	88	98	119	109	114	97	81	89
7	48	45	46	101	87	92	115	109	112	120	96	103
8	48	45	47	86	80	83	110	98	104	113	108	110
9	---	---	---	117	87	94	111	102	106	111	95	103
10	---	---	---	129	116	124	112	104	108	99	92	96
11	---	---	---	126	108	115	109	100	104	102	93	98
12	---	---	---	162	102	120	108	98	103	106	97	102
13	47	44	45	124	108	115	121	99	106	114	89	106
14	46	43	44	119	105	110	118	109	113	116	107	112
15	47	45	46	96	81	90	117	104	109	112	106	109
16	47	45	46	159	78	103	108	102	105	109	93	101
17	51	44	48	165	122	144	111	104	108	96	89	93
18	73	49	54	162	93	112	112	103	107	105	92	98
19	107	76	88	143	95	111	108	102	105	105	100	102
20	93	88	90	141	79	97	116	88	96	109	100	104
21	100	90	94	122	81	96	104	90	97	108	99	104
22	101	92	96	89	77	82	105	94	102	112	104	109
23	103	94	100	147	88	104	111	87	100	111	98	103
24	113	100	107	154	103	122	104	80	91	100	93	97
25	125	110	116	131	81	100	111	102	107	104	97	100
26	122	92	102	145	111	136	100	94	97	116	100	106
27	108	94	100	143	99	124	103	93	97	114	107	110
28	107	99	104	155	140	150	107	101	104	113	107	110
29	110	88	96	140	107	117	120	106	113	148	120	139
30	99	78	85	145	103	114	120	95	105	149	138	145
31	---	---	---	151	120	141	107	103	104	---	---	---
MONTH	125	43	71	165	77	110	148	80	107	149	80	104
YEAR	165	43	86									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.9
2	6.9	6.9	6.9	6.9	6.8	6.8	7.0	6.9	6.9	6.9	6.9	6.9
3	7.0	6.8	6.9	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.9	6.9
4	7.1	6.9	7.0	6.9	6.7	6.8	7.0	6.9	7.0	7.0	6.9	7.0
5	7.1	7.0	7.0	6.7	6.4	6.5	7.0	6.8	6.9	7.0	6.9	7.0
6	7.0	7.0	7.0	6.6	6.4	6.5	6.9	6.9	6.9	7.1	7.0	7.0
7	7.0	6.9	7.0	6.7	6.6	6.7	6.9	6.7	6.8	7.0	6.9	6.9
8	7.0	6.9	7.0	6.8	6.7	6.7	6.8	6.7	6.7	7.0	6.9	6.9
9	7.0	6.9	7.0	6.8	6.7	6.8	6.9	6.8	6.8	7.0	6.9	7.0
10	7.0	7.0	7.0	6.8	6.8	6.8	6.8	6.8	6.8	7.0	7.0	7.0
11	7.0	6.9	7.0	6.8	6.6	6.7	7.0	6.8	6.9	7.1	6.9	7.0
12	6.9	6.9	6.9	6.8	6.6	6.7	7.0	6.9	6.9	7.1	7.0	7.0
13	6.9	6.7	6.8	6.8	6.8	6.8	7.0	6.7	6.8	7.0	6.9	7.0
14	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.6	6.7	7.0	6.9	6.9
15	6.9	6.8	6.8	6.9	6.8	6.9	6.8	6.6	6.7	6.9	6.9	6.9
16	6.9	6.8	6.9	6.9	6.7	6.8	6.9	6.8	6.8	7.0	6.9	6.9
17	7.0	6.9	6.9	6.7	6.7	6.7	6.9	6.9	6.9	7.0	6.9	6.9
18	6.9	6.9	6.9	6.8	6.7	6.7	7.0	6.9	7.0	6.9	6.9	6.9
19	7.0	6.9	7.0	6.8	6.8	6.8	7.0	6.9	6.9	6.9	6.9	6.9
20	7.0	6.9	6.9	6.8	6.8	6.8	7.0	6.9	6.9	7.0	6.9	6.9
21	7.0	6.9	7.0	6.8	6.7	6.8	7.0	6.9	7.0	7.0	6.8	6.9
22	6.9	6.9	6.9	6.8	6.8	6.8	7.0	7.0	7.0	7.0	6.9	6.9
23	7.1	6.9	7.0	6.9	6.8	6.8	7.0	6.9	6.9	7.0	6.8	6.9
24	7.0	6.9	6.9	6.9	6.8	6.8	7.0	6.9	6.9	6.9	6.8	6.9
25	7.1	6.9	7.0	6.9	6.6	6.7	7.0	6.8	6.9	6.9	6.9	6.9
26	7.1	7.0	7.0	6.7	6.5	6.6	6.9	6.8	6.9	7.0	6.9	6.9
27	7.1	6.9	7.0	6.7	6.6	6.7	6.9	6.8	6.8	7.0	6.9	6.9
28	7.1	6.9	7.0	7.0	6.7	6.9	7.0	6.8	6.9	7.0	6.9	7.0
29	7.0	6.9	6.9	7.0	6.9	7.0	6.9	6.7	6.8	7.1	6.9	7.0
30	7.0	6.9	7.0	6.9	6.9	6.9	6.8	6.7	6.8	7.1	7.1	7.1
31	7.0	6.9	6.9	---	---	---	6.9	6.8	6.9	7.1	7.0	7.1
MONTH	7.1	6.7	7.0	7.0	6.4	6.8	7.0	6.6	6.9	7.1	6.8	7.0

BEST COPY AVAILABLE

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.1	7.0	7.1	7.0	6.9	6.9	---	---	---	6.9	6.8	6.9
2	7.0	6.9	6.9	7.0	6.9	7.0	---	---	---	6.9	6.9	6.9
3	6.9	6.8	6.9	7.1	7.0	7.0	---	---	---	7.0	6.9	6.9
4	6.9	6.8	6.9	7.0	6.9	7.0	---	---	---	7.1	6.9	7.0
5	7.0	6.9	6.9	7.0	6.9	7.0	---	---	---	6.9	6.9	6.9
6	6.9	6.8	6.8	7.0	7.0	7.0	---	---	---	6.9	6.9	6.9
7	6.8	6.8	6.8	7.0	6.9	7.0	---	---	---	7.0	6.9	7.0
8	6.9	6.8	6.8	7.1	7.0	7.0	---	---	---	7.1	6.9	7.0
9	6.9	6.8	6.9	7.1	6.9	7.0	---	---	---	7.1	7.0	7.1
10	6.9	6.8	6.9	7.1	7.0	7.0	---	---	---	7.1	7.0	7.0
11	7.0	6.9	6.9	7.1	6.9	7.0	---	---	---	7.0	7.0	7.0
12	7.0	6.8	7.0	7.0	6.9	7.0	---	---	---	7.0	7.0	7.0
13	7.0	6.8	6.9	7.0	6.9	6.9	---	---	---	7.1	7.0	7.1
14	6.9	6.7	6.8	7.0	6.9	7.0	---	---	---	7.1	7.0	7.1
15	6.8	6.6	6.7	7.0	6.9	7.0	---	---	---	7.1	7.0	7.1
16	6.7	6.6	6.6	---	---	---	---	---	---	7.0	7.0	7.0
17	6.7	6.6	6.7	---	---	---	---	---	---	7.0	6.9	6.9
18	6.7	6.7	6.7	---	---	---	---	---	---	7.0	6.9	6.9
19	6.8	6.7	6.7	---	---	---	---	---	---	7.0	6.9	7.0
20	6.8	6.7	6.7	---	---	---	---	---	---	7.0	6.9	6.9
21	6.8	6.7	6.7	---	---	---	---	---	---	7.0	6.9	6.9
22	6.8	6.8	6.8	---	---	---	---	---	---	7.0	6.8	6.9
23	---	---	---	---	---	---	---	---	---	6.9	6.8	6.9
24	---	---	---	---	---	---	---	---	---	6.9	6.7	6.9
25	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
26	6.8	6.6	6.8	---	---	---	---	---	---	6.9	6.7	6.8
27	6.9	6.7	6.8	---	---	---	6.9	6.7	6.8	6.9	6.6	6.8
28	6.8	6.7	6.8	---	---	---	6.8	6.7	6.8	6.9	6.6	6.8
29	6.9	6.7	6.8	---	---	---	6.8	6.7	6.8	6.9	6.8	6.9
30	---	---	---	---	---	---	6.8	6.7	6.8	6.8	6.6	6.7
31	---	---	---	---	---	---	---	---	---	6.8	6.7	6.7
MONTH	7.1	6.6	6.8	7.1	6.9	7.0	6.9	6.7	6.8	7.1	6.6	6.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.7	6.6	6.7	7.1	7.1	7.1	7.1	6.9	7.0	7.1	7.0	7.0
2	6.8	6.6	6.7	7.1	7.0	7.1	7.1	7.0	7.0	7.1	7.0	7.1
3	6.7	6.7	6.7	7.2	7.0	7.1	7.1	7.0	7.0	7.1	7.0	7.1
4	6.7	6.6	6.7	7.1	7.0	7.1	7.0	7.0	7.0	7.1	7.0	7.0
5	6.9	6.7	6.8	7.2	6.9	7.1	7.0	6.9	6.9	7.1	7.0	7.0
6	6.8	6.7	6.7	7.3	7.0	7.1	7.0	6.9	6.9	7.1	7.0	7.1
7	6.9	6.7	6.7	7.0	6.9	7.0	7.0	6.9	7.0	7.2	7.0	7.1
8	6.9	6.7	6.8	7.0	6.9	6.9	7.0	6.9	7.0	7.2	7.0	7.1
9	---	---	---	7.0	6.9	7.0	7.0	6.9	7.0	7.1	7.0	7.1
10	---	---	---	7.1	7.0	7.0	6.9	6.9	6.9	7.1	7.0	7.1
11	---	---	---	7.1	7.0	7.1	6.9	6.8	6.9	7.1	7.0	7.0
12	---	---	---	7.2	7.1	7.1	6.9	6.8	6.9	7.1	7.0	7.0
13	7.1	7.0	7.1	7.2	7.1	7.2	7.0	6.9	6.9	7.2	6.9	7.1
14	7.1	7.0	7.0	7.1	7.0	7.1	7.0	6.9	7.0	7.1	7.0	7.1
15	7.1	7.0	7.1	7.1	7.0	7.0	7.0	6.9	7.0	7.1	7.1	7.1
16	7.1	7.0	7.1	7.0	6.9	7.0	7.0	6.9	6.9	7.1	7.0	7.0
17	7.2	7.0	7.1	7.1	7.0	7.0	7.0	7.0	7.0	7.2	7.1	7.1
18	7.1	6.9	7.0	7.3	6.9	7.0	7.0	6.9	7.0	7.1	7.0	7.1
19	7.1	6.9	7.0	7.3	6.9	7.0	7.0	6.9	7.0	7.1	7.0	7.1
20	7.2	7.1	7.1	7.1	6.8	7.0	7.0	6.9	7.0	7.1	7.0	7.1
21	7.2	7.1	7.2	7.1	7.1	7.1	7.1	7.0	7.0	7.1	7.0	7.1
22	7.4	7.1	7.2	7.1	7.0	7.0	7.1	7.0	7.0	7.2	7.0	7.2
23	7.4	7.1	7.3	7.2	7.0	7.0	7.1	6.9	7.0	7.2	7.1	7.1
24	7.2	7.1	7.2	7.2	7.0	7.0	7.2	7.0	7.1	7.1	7.0	7.1
25	7.2	7.1	7.1	7.1	7.0	7.0	7.2	7.1	7.1	7.1	7.0	7.1
26	7.2	7.1	7.1	7.1	7.0	7.0	7.1	7.0	7.0	7.2	7.0	7.0
27	7.2	7.1	7.2	7.1	7.0	7.1	7.2	7.0	7.1	7.2	7.0	7.1
28	7.3	7.2	7.2	7.1	7.1	7.1	7.2	7.1	7.2	7.1	7.0	7.0
29	7.2	7.1	7.2	7.1	7.1	7.1	7.2	7.1	7.2	7.1	7.0	7.0
30	7.2	7.1	7.1	7.1	6.9	7.0	7.2	7.1	7.1	7.1	7.0	7.1
31	---	---	---	7.0	6.9	7.0	7.1	7.1	7.1	---	---	---
MONTH	7.4	6.6	7.0	7.3	6.8	7.1	7.2	6.8	7.0	7.2	6.9	7.1
YEAR	7.4	6.4	6.9									

BEST COPY AVAILABLE

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.0	17.5	18.0	9.5	8.5	9.0	5.0	4.5	4.5	.5	.0	.5
2	18.5	17.5	18.0	9.0	8.5	9.0	5.0	4.5	4.5	1.0	.0	.5
3	19.5	18.0	18.5	9.5	9.0	9.5	5.0	4.5	4.5	1.0	.5	.5
4	19.5	18.5	19.0	9.5	8.5	9.5	4.5	3.0	4.0	1.0	.5	1.0
5	19.0	18.0	18.5	8.5	7.0	7.5	3.5	3.0	3.0	1.5	.5	1.0
6	18.5	17.5	18.0	7.5	7.0	7.0	3.5	3.0	3.5	2.0	1.0	1.5
7	18.0	17.0	17.5	8.0	7.5	7.5	3.5	2.5	3.0	2.0	1.5	1.5
8	18.0	16.5	17.0	8.0	7.5	8.0	2.5	1.5	2.0	1.5	1.0	1.5
9	17.0	16.5	16.5	8.5	7.5	8.0	2.0	1.5	2.0	1.5	1.0	1.0
10	16.5	15.5	16.0	9.0	8.0	8.5	3.0	2.0	2.5	1.0	.5	.5
11	16.0	15.0	15.5	9.0	8.5	8.5	3.0	2.0	2.5	.5	.0	.5
12	15.5	15.0	15.0	8.5	8.0	8.5	2.0	1.0	1.5	.5	.0	.5
13	16.0	15.0	15.5	8.0	7.0	7.5	2.0	1.5	2.0	.5	.0	.0
14	16.5	15.0	16.0	7.0	6.5	6.5	2.0	1.5	2.0	.5	.0	.5
15	16.0	15.0	15.5	7.0	6.5	6.5	---	---	---	.5	.5	.5
16	15.0	14.5	14.5	7.0	6.0	6.5	---	---	---	.5	.0	.5
17	14.5	14.0	14.0	6.5	6.0	6.0	---	---	---	.5	.0	.5
18	15.0	14.0	14.5	6.0	5.5	6.0	---	---	---	.5	.0	.5
19	14.5	13.5	14.0	5.5	5.0	5.5	---	---	---	1.0	.5	.5
20	13.5	12.5	13.0	5.5	5.0	5.0	2.0	.5	1.5	.5	.0	.5
21	12.5	11.5	12.0	6.0	5.5	6.0	1.0	.0	.5	.5	.0	.0
22	12.0	11.0	11.5	6.0	5.5	5.5	1.0	.5	.5	.5	.0	.0
23	11.5	10.5	11.0	6.5	5.5	6.0	1.0	.5	.5	.5	.0	.5
24	11.0	10.5	11.0	6.5	6.0	6.0	1.0	.5	.5	.5	.0	.5
25	10.5	10.0	10.0	6.5	6.0	6.5	.5	.0	.0	1.0	.5	.5
26	10.0	9.0	9.5	6.0	4.5	5.5	.5	.0	.0	1.0	.5	.5
27	10.5	9.5	10.0	5.0	4.5	4.5	.5	.0	.5	1.0	.5	.5
28	10.5	9.5	10.0	5.0	4.5	4.5	1.0	.5	.5	.5	.0	.5
29	10.5	9.5	10.0	5.0	4.5	5.0	1.0	.5	.5	.5	.0	.5
30	10.0	9.0	9.5	5.0	4.5	5.0	.5	.0	.5	1.0	.5	.5
31	9.0	8.5	9.0	---	---	---	.5	.0	.5	.5	.5	.5
MONTH	19.5	8.5	14.0	9.5	4.5	7.0	5.0	.0	2.0	2.0	.0	.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.5	1.5	1.0	1.0	---	---	---	9.5	8.5	9.0
2	.5	.0	.5	2.0	1.0	1.5	4.5	3.5	4.0	9.5	8.5	8.5
3	1.0	.0	.5	2.0	1.5	2.0	5.0	4.0	4.5	9.0	8.0	8.5
4	1.0	.5	1.0	2.0	1.5	2.0	5.0	4.5	5.0	9.0	8.0	8.5
5	1.0	.5	1.0	2.0	1.5	1.5	5.0	3.5	4.5	8.5	8.0	8.0
6	1.5	1.0	1.0	2.5	2.0	2.0	3.5	2.5	3.0	9.0	8.0	8.5
7	1.0	1.0	1.0	2.5	2.0	2.5	4.5	3.5	4.0	10.0	8.5	9.5
8	1.0	.5	.5	2.0	1.5	2.0	---	---	---	10.0	9.5	9.5
9	1.0	.5	.5	2.0	1.0	1.5	---	---	---	11.0	9.5	10.0
10	.5	.5	.5	1.5	1.0	1.5	---	---	---	12.0	10.5	11.0
11	1.0	.5	1.0	2.0	1.5	1.5	---	---	---	12.5	11.0	11.5
12	2.0	1.0	1.5	1.5	1.0	1.0	---	---	---	12.5	11.5	12.0
13	2.0	1.5	2.0	1.5	1.0	1.5	---	---	---	12.5	11.0	12.0
14	2.5	2.0	2.0	1.0	.5	.5	5.5	4.5	5.0	12.5	12.0	12.5
15	2.5	1.5	2.0	1.5	.5	1.0	5.0	4.5	4.5	12.0	11.5	11.5
16	1.5	1.0	1.5	---	---	---	5.0	4.5	4.5	12.0	11.5	11.5
17	2.0	1.5	1.5	---	---	---	5.5	4.5	5.0	12.0	11.0	11.5
18	2.0	1.5	2.0	---	---	---	5.5	5.0	5.5	12.5	11.0	12.0
19	2.5	1.5	2.0	---	---	---	5.5	5.0	5.0	12.0	11.5	11.5
20	2.5	2.0	2.5	---	---	---	5.5	5.0	5.0	12.0	11.0	11.5
21	2.5	2.0	2.5	---	---	---	5.5	5.0	5.5	13.0	12.0	12.5
22	2.5	2.0	2.5	---	---	---	6.0	4.5	5.5	13.5	12.5	13.0
23	---	---	---	2.5	1.5	2.0	7.0	5.0	6.0	15.0	14.0	14.5
24	---	---	---	3.0	2.0	2.5	7.0	6.0	6.5	15.5	15.0	15.5
25	---	---	---	3.0	2.0	2.5	6.5	5.5	6.0	16.5	15.5	16.0
26	3.5	2.0	2.5	3.0	2.5	3.0	7.0	5.5	6.0	16.5	15.5	16.0
27	2.5	1.5	2.0	3.5	3.0	3.5	8.0	6.0	7.0	17.0	16.0	16.5
28	2.5	1.0	1.5	4.0	3.5	3.5	9.0	7.5	8.0	16.5	15.0	15.5
29	2.0	1.0	1.5	4.0	2.5	3.5	9.0	7.5	8.5	15.0	12.0	14.0
30	---	---	---	3.0	2.0	2.5	9.5	8.0	9.0	12.0	11.0	11.5
31	---	---	---	---	---	---	---	---	---	12.5	11.5	12.0
MONTH	3.5	.0	1.5	4.0	.5	2.0	9.5	2.5	5.5	17.0	8.0	12.0

BEST COPY AVAILABLE

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.5	11.5	12.0	22.0	20.0	21.0	24.5	23.5	24.0	24.0	23.5	23.5
2	11.5	11.5	11.5	24.0	21.0	22.0	25.5	24.0	24.5	23.5	22.5	23.0
3	12.0	11.0	11.5	24.0	23.0	23.5	25.5	24.5	25.0	22.5	22.0	22.0
4	13.5	11.5	12.5	24.5	23.0	24.0	26.5	24.5	25.5	22.0	21.5	22.0
5	14.5	13.0	13.5	24.5	23.0	23.5	26.5	25.0	26.0	21.5	21.0	21.5
6	14.5	14.0	14.5	23.5	23.0	23.0	26.5	25.5	26.0	21.0	20.0	20.5
7	15.0	13.5	14.5	23.0	22.0	22.5	26.5	26.0	26.5	20.5	19.5	20.0
8	16.5	14.0	15.0	22.0	21.5	21.5	27.0	26.0	26.5	20.5	19.5	20.0
9	---	---	---	22.0	21.0	21.5	26.5	26.0	26.5	21.0	19.5	20.0
10	---	---	---	22.0	21.0	21.5	26.0	25.5	25.5	21.0	20.0	20.5
11	---	---	---	22.0	21.0	21.5	25.5	25.0	25.0	21.5	20.5	21.0
12	---	---	---	23.5	21.5	22.5	25.0	24.5	25.0	21.5	20.5	21.0
13	22.0	20.0	20.5	24.0	22.0	23.0	25.0	24.5	24.5	21.0	20.5	20.5
14	21.5	20.5	21.0	24.5	23.0	23.5	25.0	24.5	24.5	21.0	20.0	20.5
15	21.0	19.5	20.5	25.0	23.5	24.5	25.5	24.5	25.0	20.5	19.5	20.0
16	20.5	19.0	19.5	25.5	24.0	24.5	26.0	24.5	25.5	19.5	18.5	19.0
17	20.0	18.0	19.0	25.0	24.5	25.0	26.0	25.0	25.5	18.5	17.5	18.0
18	19.0	18.0	18.5	25.0	23.5	24.0	25.5	25.0	25.5	19.0	17.5	18.0
19	20.0	18.0	19.0	24.0	22.5	23.5	25.0	24.5	24.5	19.0	17.5	18.0
20	21.0	19.0	20.0	24.5	22.0	23.0	24.5	23.5	24.0	19.0	18.0	18.5
21	21.0	19.5	20.5	24.5	23.5	24.0	24.0	23.0	23.5	19.0	18.5	18.5
22	21.0	20.0	20.5	25.0	23.5	24.5	24.5	23.0	23.5	18.5	18.0	18.5
23	21.5	20.0	20.5	26.0	24.0	24.5	24.0	23.0	23.5	19.0	17.5	18.0
24	21.0	20.0	20.5	26.0	24.5	25.5	23.5	22.5	23.0	20.0	18.5	19.5
25	20.0	18.5	19.5	25.5	24.0	25.0	24.0	22.5	23.0	20.0	19.5	20.0
26	18.5	18.0	18.5	25.0	24.0	24.5	23.5	22.5	23.0	20.0	19.5	20.0
27	19.0	17.5	18.5	24.5	23.5	23.5	23.5	22.0	23.0	19.5	18.0	18.5
28	20.0	18.5	19.0	23.5	23.0	23.0	24.0	22.5	23.5	18.0	17.5	17.5
29	20.5	19.0	20.0	23.5	21.5	22.5	24.0	23.5	23.5	18.0	17.5	18.0
30	20.5	20.0	20.5	24.0	22.5	23.0	24.5	23.5	24.0	18.0	17.0	17.5
31	---	---	---	25.0	23.5	24.0	24.5	24.0	24.0	---	---	---
MONTH	22.0	11.0	17.5	26.0	20.0	23.5	27.0	22.0	24.5	24.0	17.0	20.0
YEAR	27.0	.0	11.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.7	9.2	9.5	11.6	10.6	11.4	13.2	12.7	13.0			
2	9.4	8.9	9.2	11.3	11.2	11.1	13.1	12.5	12.8			
3	9.4	8.4	9.1	11.0	10.6	10.8	13.1	12.6	12.8			
4	8.8	8.4	8.6	11.1	10.5	10.7	13.2	12.9	13.1			
5	8.7	8.3	8.5	11.6	11.2	11.4	13.4	12.8	13.3			
6	9.0	8.5	8.7	11.6	10.9	11.3	---	---	---			
7	9.0	8.7	8.8	11.4	11.1	11.3	13.5	13.0	13.2			
8	9.2	8.7	9.0	11.7	11.3	11.4	14.1	13.3	13.8			
9	9.3	9.1	9.2	11.7	11.2	11.4	---	---	---			
10	9.5	9.1	9.3	11.5	11.1	11.3	---	---	---			
11	10.0	9.4	9.7	---	---	---	---	---	---			
12	9.8	9.5	9.7	---	---	---	---	---	---			
13	9.7	9.1	9.5	---	---	---	---	---	---			
14	9.6	9.0	9.3	---	---	---	---	---	---			
15	9.2	8.9	9.1	12.5	12.0	12.3	---	---	---			
16	9.6	9.1	9.4	12.4	11.8	12.2	---	---	---			
17	10.5	9.4	10.1	12.3	11.9	12.1	---	---	---			
18	10.2	9.6	9.9	12.4	12.0	12.2	---	---	---			
19	9.9	9.5	9.8	12.5	12.0	12.3	---	---	---			
20	10.4	9.7	10.1	12.6	12.4	12.5	---	---	---			
21	10.6	10.1	10.3	12.5	11.9	12.2	---	---	---			
22	10.5	10.0	10.4	12.5	12.2	12.4	---	---	---			
23	10.6	10.1	10.4	12.3	11.5	11.9	---	---	---			
24	10.7	10.2	10.5	12.0	11.6	11.9	---	---	---			
25	10.8	10.3	10.6	12.0	11.1	11.6	---	---	---			
26	10.8	10.4	10.6	12.3	11.9	12.1	---	---	---			
27	10.6	10.3	10.5	12.4	12.1	12.2	---	---	---			
28	10.6	10.2	10.4	13.3	12.3	13.0	---	---	---			
29	10.3	9.9	10.1	13.1	12.8	13.0	---	---	---			
30	10.9	10.2	10.6	13.1	12.7	13.0	---	---	---			
31	11.7	10.0	11.2	---	---	---	---	---	---			
MONTH	11.7	8.3	9.8	13.3	10.5	11.9	14.1	12.5	13.1			

BEST COPY AVAILABLE

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				13.6	13.0	13.2	---	---	---	12.3	11.9	12.1
2				13.3	13.1	13.2	---	---	---	12.4	11.9	12.2
3				13.5	13.2	13.3	---	---	---	12.5	12.1	12.3
4				13.8	13.4	13.7	---	---	---	12.1	12.0	12.0
5				14.2	13.0	13.9	---	---	---	12.3	12.0	12.2
6				13.3	12.4	12.7	---	---	---	12.5	12.1	12.4
7				12.8	12.5	12.6	---	---	---	12.3	11.9	12.1
8				13.0	12.7	12.9	---	---	---	12.0	11.4	11.7
9				13.2	12.9	13.0	---	---	---	11.5	11.1	11.3
10				13.3	13.1	13.2	---	---	---	11.2	11.0	11.1
11				13.2	13.0	13.1	---	---	---	11.3	11.0	11.1
12				13.6	13.3	13.5	---	---	---	11.0	10.6	10.8
13				13.8	13.1	13.6	---	---	---	11.3	10.8	11.1
14				13.6	13.3	13.4	13.2	12.9	13.1	11.0	10.7	10.9
15				13.5	13.1	13.4	13.2	12.9	13.1	11.2	11.0	11.1
16				---	---	---	12.9	12.6	12.7	11.1	11.0	11.0
17				---	---	---	12.9	12.7	12.8	11.4	11.0	11.2
18				---	---	---	12.9	12.8	12.9	11.4	11.2	11.3
19				---	---	---	13.1	12.9	13.0	11.5	11.1	11.3
20				---	---	---	13.1	12.8	13.0	11.5	11.2	11.3
21				---	---	---	12.9	12.8	12.9	11.4	11.1	11.2
22				---	---	---	13.3	12.9	13.1	11.2	10.8	11.1
23				13.9	13.6	13.7	13.0	12.3	12.8	10.8	10.3	10.6
24				13.8	13.5	13.6	12.5	12.3	12.4	10.5	10.0	10.3
25				13.6	13.3	13.5	12.8	12.3	12.5	10.3	10.0	10.2
26				13.5	13.2	13.3	13.2	12.8	13.0	10.4	9.8	10.2
27				13.3	13.1	13.2	13.1	12.6	12.9	10.3	9.7	10.1
28				13.3	13.0	13.1	12.9	12.4	12.7	10.6	10.1	10.3
29				13.0	12.8	12.9	12.8	12.2	12.5	11.2	10.5	10.8
30				---	---	---	12.6	12.0	12.3	11.5	11.2	11.4
31				---	---	---	---	---	---	11.2	11.0	11.2
MONTH				14.2	12.4	13.3	13.3	12.0	12.8	12.5	9.7	11.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.5	8.6	8.8	7.6	7.4	7.5	8.0	7.7	7.8
2	---	---	---	8.6	8.0	8.3	7.5	7.2	7.4	8.1	7.7	7.9
3	---	---	---	8.0	7.7	7.9	7.7	7.2	7.4	8.1	7.9	8.0
4	---	---	---	7.9	7.6	7.7	7.6	7.3	7.5	8.2	7.9	8.1
5	---	---	---	7.9	7.6	7.8	7.4	7.2	7.3	8.5	8.1	8.3
6	10.6	10.4	10.5	8.2	7.5	7.9	7.3	7.0	7.2	8.6	8.3	8.5
7	10.7	10.3	10.5	8.4	8.2	8.3	7.2	7.0	7.1	8.8	8.4	8.6
8	10.6	10.0	10.3	8.6	8.4	8.5	7.3	7.0	7.1	8.8	8.5	8.7
9	---	---	---	8.6	8.3	8.5	7.1	6.9	7.0	8.7	8.5	8.6
10	---	---	---	8.3	8.1	8.2	7.3	7.0	7.1	8.8	8.4	8.6
11	---	---	---	8.3	7.9	8.2	7.4	7.2	7.3	8.6	8.3	8.5
12	---	---	---	8.0	7.7	7.9	7.4	7.2	7.3	8.3	8.0	8.2
13	9.1	8.8	9.0	7.9	7.6	7.8	7.3	6.8	7.1	8.0	7.8	7.8
14	9.0	8.8	8.9	7.8	7.5	7.7	7.4	6.7	7.2	8.1	7.6	7.9
15	9.2	8.8	9.1	7.7	7.6	7.6	7.4	7.2	7.3	8.2	8.0	8.1
16	9.5	9.1	9.3	7.8	7.0	7.5	7.3	7.1	7.2	8.7	8.1	8.4
17	9.7	9.2	9.5	7.3	6.6	7.0	7.4	7.0	7.3	9.1	8.5	8.9
18	9.6	9.0	9.4	7.7	7.1	7.5	7.5	7.2	7.4	8.9	8.6	8.8
19	9.0	8.8	8.9	7.9	7.1	7.6	7.7	7.3	7.5	8.8	8.5	8.7
20	8.9	8.7	8.9	8.2	7.2	7.9	7.9	7.5	7.7	8.8	8.5	8.7
21	8.9	8.7	8.8	8.0	7.5	7.9	8.1	7.8	7.9	9.0	8.6	8.8
22	8.9	8.7	8.8	8.1	7.9	8.0	8.1	7.9	8.0	9.0	8.8	8.9
23	8.8	8.6	8.7	8.0	7.2	7.7	8.1	7.8	7.9	9.1	8.9	9.0
24	8.8	8.6	8.7	7.5	7.1	7.3	8.2	8.0	8.1	8.9	8.7	8.8
25	8.9	8.7	8.8	7.7	7.2	7.6	8.1	7.9	8.0	8.7	8.5	8.6
26	9.1	8.8	9.0	7.5	7.1	7.2	8.2	8.0	8.1	8.5	8.4	8.4
27	9.1	9.0	9.1	7.7	7.3	7.6	8.3	8.0	8.1	8.9	8.4	8.7
28	9.0	8.8	8.9	7.6	7.2	7.4	8.2	7.9	8.0	9.0	8.7	8.9
29	9.0	8.7	8.8	8.1	7.6	7.9	8.0	7.8	7.9	8.6	8.2	8.3
30	8.9	8.7	8.8	8.0	7.6	7.9	8.0	7.7	7.8	8.6	8.2	8.4
31	---	---	---	7.8	7.4	7.6	7.8	7.6	7.7	---	---	---
MONTH	9.7	8.6	9.0	8.8	6.6	7.8	8.3	6.7	7.5	9.1	7.6	8.5
PERIOD	14.2	6.6	10.1									

BEST COPY AVAILABLE

01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls 1.8 mi downstream from Swift River and Conway.

DRAINAGE AREA.--385 mi^2.

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

REVISED RECORDS.--WSP 1301: 1908-09. WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft National Geodetic Vertical Datum of 1929. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi downstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record June 30 to Aug. 9, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--61 years (water years 1904-09, 1930-84), 939 ft^3/s (33.12 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,900 ft^3/s Mar. 27, 1953, gage height, 17.20 ft (from rating curve extended above 23,000 ft^3/s on basis of slope-area measurement of peak flow); maximum gage height, 19.03 ft Mar. 7, 1979, (ice jam); minimum discharge, 40 ft^3/s Mar. 16, 1932, gage height, 1.61 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 25	2000	8840	8.03	Apr. 06	0100	*24300	12.41
Dec. 14	1400	12400	9.16	May 31	0430	14700	9.85

Minimum discharge, 128 ft^3/s Sept. 9,10, gage height, 2.05 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	270	1670	600	310	945	939	5020	7700	560	275	180
2	157	262	1390	560	305	860	1020	3130	5000	520	265	178
3	157	242	1270	530	300	775	1130	2320	4480	480	260	178
4	152	796	1050	500	325	720	1260	3750	3060	450	250	183
5	164	3350	1050	475	400	675	8520	3750	2420	650	235	172
6	240	2560	1030	450	340	625	15100	2570	1990	900	230	158
7	281	1690	3070	435	320	590	7500	2370	1790	2080	220	160
8	221	1170	2080	415	310	555	5130	2620	1610	2000	230	150
9	190	962	1540	400	300	535	3630	4570	1370	1400	255	142
10	177	955	1360	375	300	510	2850	3040	1190	920	247	143
11	172	1370	1150	370	295	485	2480	2320	1050	600	244	136
12	167	2820	1070	355	290	460	2580	3570	939	1350	244	154
13	1280	1660	3720	345	290	430	2940	5360	853	1000	244	159
14	1190	1160	10300	335	290	425	3130	3750	872	750	254	158
15	844	970	5810	325	370	430	3130	3050	1000	670	521	176
16	539	1020	3360	315	2400	460	4230	2360	795	515	444	171
17	414	2380	2330	310	1950	510	5870	2000	715	490	308	162
18	370	1530	1650	300	1600	570	5260	1760	670	495	259	163
19	330	1170	1300	295	1200	653	4670	1670	706	670	237	156
20	303	1000	1050	290	910	1600	4030	1960	625	550	244	152
21	281	2000	890	285	800	1870	3770	1930	560	480	234	157
22	268	2760	790	280	740	1840	2940	1750	519	440	219	176
23	260	1920	710	275	700	1540	2710	1880	485	410	227	162
24	287	1500	660	275	800	1280	4360	2830	463	375	249	149
25	338	4890	600	330	1150	1150	5890	1790	1750	345	238	147
26	302	4460	560	580	1900	1070	3840	1450	1790	325	229	148
27	279	2550	620	450	1400	1010	3550	1400	1120	320	207	149
28	263	1920	700	400	1200	980	3530	1160	822	450	191	156
29	252	2030	800	360	1050	966	3620	4170	678	380	182	155
30	250	2220	700	335	---	908	4150	10700	605	330	178	159
31	241	---	650	320	---	883	---	13400	---	300	177	---
TOTAL	10526	53587	54880	11870	22545	26310	123759	103400	47627	21205	7797	4789
MEAN	340	1786	1770	383	777	849	4125	3335	1588	684	252	160
MAX	1280	4890	10300	600	2400	1870	15100	13400	7700	2080	521	183
MIN	152	242	560	275	290	425	939	1160	463	300	177	136
CFSM	.88	4.64	4.60	.99	2.02	2.21	10.7	8.66	4.12	1.78	.65	.42
IN.	1.02	5.18	5.30	1.15	2.18	2.54	11.96	9.99	4.60	2.05	.75	.46

CAL YR 1983 TOTAL 456972 MEAN 1252 MAX 10800 MIN 129 CFSM 3.25 IN. 44.15
WTR YR 1984 TOTAL 488295 MEAN 1334 MAX 15100 MIN 136 CFSM 3.46 IN. 47.18

BEST COPY AVAILABLE

01065000 OSSIPEE RIVER AT EFFINGHAM FALLS, NH

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, Hydrologic Unit 01060002, on left bank 0.3 mi upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi downstream from outlet of Ossipee Lake, and 4 mi northwest of Effingham.

DRAINAGE AREA.--330 mi^2.

PERIOD OF RECORD.--Discharge: September 1942 to current year.
Water-quality records: Water year 1955.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Ossipee and Silver Lakes and Pine River Pond, combined capacity, 1,430,000,000 ft^3. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--42 years, 698 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft^3/s Mar. 28, 1953, gage height 11.64 ft; minimum, about 5 ft^3/s during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 ft^3/s Oct. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,110 ft^3/s June 1, gage height, 9.71 ft; minimum, 160 ft^3/s Oct 9-12; minimum daily, 160 ft^3/s Oct. 9-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	187	1770	1570	450	1830	801	1400	5950	704	253	220
2	166	188	1600	1550	438	1810	798	1200	5870	563	244	219
3	164	189	1540	1050	431	1810	811	1060	5350	486	232	218
4	164	198	1400	795	439	1800	847	1260	4750	476	238	218
5	164	845	1310	766	459	1290	1090	1450	4150	472	236	217
6	163	1460	1230	572	504	749	2100	1460	3570	686	234	216
7	162	1560	1360	465	532	647	3740	1230	3100	872	230	215
8	162	1460	1610	489	548	610	4350	1090	2720	1210	229	215
9	160	1360	1680	504	542	572	4200	1310	2430	1230	229	213
10	160	1280	1650	519	528	537	3820	1440	2100	1220	227	212
11	160	1220	1540	537	516	511	3380	1410	1590	1090	355	213
12	160	1200	1420	526	511	478	3020	1410	1270	1020	309	213
13	167	1180	1420	516	507	450	2770	1890	869	1030	372	212
14	172	1070	1980	518	510	416	2610	2310	663	1020	225	212
15	175	988	3050	518	546	437	2470	2420	663	1000	229	212
16	176	1020	3450	515	736	432	2390	2370	665	727	232	211
17	178	1110	3310	506	1130	441	2490	2190	665	526	224	210
18	178	1050	2990	496	1410	443	2640	1810	664	652	223	210
19	178	1010	2660	490	1480	467	2650	1590	661	788	226	209
20	179	995	2310	474	1470	522	2570	1500	573	712	231	208
21	180	989	1950	460	1450	620	2460	1310	465	656	231	207
22	180	1030	1720	447	1400	764	2280	1180	326	656	233	206
23	183	1170	1610	437	1320	1060	2080	807	236	655	223	207
24	185	1220	1590	439	1270	1200	1940	519	239	648	223	209
25	187	1480	1580	453	1350	1180	2010	523	317	549	223	208
26	189	2180	1580	461	1750	1130	2050	537	916	408	223	207
27	191	2290	1580	469	2100	1060	1920	555	1020	328	222	204
28	191	2140	1580	471	2100	1010	1780	569	1130	279	221	202
29	192	1960	1580	466	1960	962	1690	1340	866	291	221	202
30	188	1870	1580	463	---	901	1500	3140	711	272	221	200
31	187	---	1570	462	---	820	---	4660	---	252	221	---
TOTAL	5407	35899	57200	18404	28387	26959	69257	46940	54499	21478	7740	6325
MEAN	174	1197	1845	594	979	870	2309	1514	1817	693	250	211
MAX	192	2290	3450	1570	2100	1830	4350	4660	5950	1230	609	220
MIN	160	187	1230	437	431	416	798	519	236	252	221	200

CAL YR 1983 TOTAL 328991 MEAN 901 MAX 3720 MIN 160
WTR YR 1984 TOTAL 378495 MEAN 1034 MAX 5950 MIN 160

BEST COPY AVAILABLE

01065500 OSSIPEE RIVER AT CORNISH, ME

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, Hydrologic Unit 01060002, on left bank 100 ft downstream from highway bridge in Cornish and 1.3 mi upstream from mouth.

DRAINAGE AREA.--452 mi^2.

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 1301: 1927-29(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft, National Geodetic Vertical Datum of 1929. Prior to Aug. 21, 1929, nonrecording gage, and Aug. 21, 1929, to Sept. 30, 1942, water-stage recorder at same site and datum 1 ft higher.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by mill at Kezer Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds, combined capacity 1,600,000,000 ft^3. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--68 years, 885 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft^3/s Mar. 21, 1936, gage height, 16.32 ft present datum, from rating curve extended above 7,500 ft^3/s; minimum daily, 65 ft^3/s Sept. 8, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,360 ft^3/s June 1, gage height, 10.12 ft; minimum daily, 177 ft^3/s Oct. 9, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	227	2270	1840	620	2190	1520	1870	8230	1040	327	272
2	188	227	2020	1760	600	1980	1540	1710	8000	942	324	261
3	188	230	1910	1710	595	1710	1590	1510	7630	697	304	255
4	185	416	1750	1520	590	1570	1660	1840	6380	650	293	257
5	188	1180	1650	1190	640	1460	2510	2250	5410	663	291	255
6	193	1820	1590	1010	680	1370	6080	2050	4610	1020	293	249
7	191	1860	2290	710	710	1180	6060	1840	3980	1300	285	246
8	188	1720	2330	700	725	1120	6190	1610	3500	1650	278	244
9	177	1580	2170	705	720	1050	5610	1950	3090	1620	276	242
10	185	1480	2090	705	710	990	4930	2010	2740	1560	275	237
11	177	1520	1950	710	705	950	4360	1910	2350	1480	274	243
12	188	1540	1800	705	700	905	3910	2010	1800	1360	624	260
13	363	1450	2110	700	700	870	3590	2620	1530	1340	660	245
14	331	1340	3580	700	705	845	3350	3040	1140	1310	316	245
15	258	1190	3950	695	740	850	3140	3140	1150	1290	308	250
16	230	1340	4220	690	920	860	3120	2970	1120	1230	298	254
17	224	1660	4020	685	1450	876	3430	2770	1100	895	282	244
18	224	1500	3600	680	1800	882	3420	2470	1080	811	266	240
19	227	1300	3190	670	1890	984	3390	2090	1080	1080	264	238
20	218	1240	2820	650	1910	1240	3270	1980	1030	1060	331	237
21	221	1340	2660	640	1910	1380	3080	1840	769	908	305	229
22	216	1480	2250	620	1800	1660	2850	1610	691	894	292	232
23	216	1460	2050	605	1700	1900	2640	1450	425	879	308	231
24	267	1520	2040	595	1740	2090	2680	964	409	866	320	227
25	274	2170	2030	610	1900	2020	3020	892	510	822	295	234
26	251	3070	2060	630	2570	1940	2820	873	1170	548	278	224
27	242	2840	2000	640	2730	1840	2620	947	1260	484	273	229
28	239	2610	1920	645	2590	1760	2380	936	1460	389	267	223
29	233	2520	1770	635	2450	1700	2230	1850	1340	386	264	220
30	227	2470	1650	630	---	1640	2050	5020	1050	388	265	219
31	233	---	1830	625	---	1500	---	6630	---	331	265	---
TOTAL	6927	46300	73570	25610	37500	43312	99040	66652	76034	29893	9701	7242
MEAN	223	1543	2373	826	1293	1397	3301	2150	2534	964	313	241
MAX	363	3070	4220	1840	2730	2190	6190	6630	8230	1650	660	272
MIN	177	227	1590	595	590	845	1520	873	409	331	264	219

CAL YR 1983 TOTAL 435589 MEAN 1193 MAX 5630 MIN 177
WTR YR 1984 TOTAL 521781 MEAN 1426 MAX 8230 MIN 177

BEST COPY AVAILABLE

01066000 SACO RIVER AT CORNISH, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, Hydrologic Unit 01060002, on left bank 300 ft upstream from highway bridge at Cornish and 0.4 mi downstream from Ossipee River.

DRAINAGE AREA.--1,293 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WSP 1301: 1917-18(M), 1936(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

REMARKS.--Records good except those for winter period which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds, combined capacity, 3,400,000,000 ft^3.

AVERAGE DISCHARGE.--68 years, 2,726 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft^3/s Mar. 21, 22, 1936, gage height, 21.90 ft, (from floodmarks); minimum daily, 244 ft^3/s Oct. 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,300 ft^3/s Jun. 2, gage height, 13.17 ft; minimum daily, 405 ft^3/s Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	662	797	7110	3700	1080	4500	4420	7570	17500	2490	1230	587
2	689	1170	6630	4200	1050	4100	4420	7270	21100	2310	1130	413
3	705	624	6230	3600	1040	3600	4520	6970	21400	1960	1120	546
4	682	966	5740	3500	1070	3250	4730	7390	18900	1900	1080	614
5	658	2500	5200	2550	1130	2950	6410	7710	16300	1920	974	605
6	649	3770	4940	2350	1220	2750	13000	7220	14000	2090	1040	594
7	565	4010	6240	2200	1280	2600	13900	6850	12000	2440	1000	583
8	567	3940	6050	2100	1200	2400	18300	6380	10400	3000	936	576
9	603	3850	5860	1900	1140	2250	19200	6700	9000	3250	895	570
10	599	3720	5860	1700	1100	2100	17900	6650	7780	3250	880	562
11	578	3780	5610	1600	1070	2000	15800	6550	6550	3190	878	569
12	493	3820	5250	1450	1040	1950	13800	6840	5440	3040	1160	587
13	756	3880	5800	1350	1020	1870	12300	7680	4700	2940	1230	551
14	882	3920	8580	1300	1000	1850	11300	8300	3980	2970	927	569
15	1270	3770	9450	1250	1200	1850	10500	8760	3790	2880	858	575
16	1250	4030	11200	1220	1500	1900	10200	8640	3560	2770	875	578
17	1140	4410	12200	1200	2000	2050	10500	8290	3360	2500	879	436
18	1090	4210	11800	1170	2350	2250	10500	7570	3070	2380	860	405
19	1060	4080	10000	1150	2550	2600	10800	6740	2980	2650	858	467
20	961	4020	8300	1130	2850	3000	11100	6210	2790	2510	929	488
21	976	4160	6800	1110	3300	3600	10900	5630	2450	2400	905	496
22	905	4360	5600	1100	3800	4780	10400	5180	2280	2340	884	578
23	873	4450	4700	1080	4100	5270	9790	4810	1950	2240	903	572
24	904	4670	4000	1070	4200	5660	9530	4060	1820	2070	915	563
25	894	6220	3500	1350	4100	5720	9720	3930	1890	1950	884	569
26	901	7500	3300	1550	5400	5620	9280	3920	2540	1670	864	553
27	867	7350	3400	1420	6000	5450	9170	3870	2890	1550	1090	553
28	854	7470	3600	1300	5700	5270	8890	3720	3160	1460	799	542
29	837	7700	3100	1200	5360	5080	8490	5150	3040	1400	758	537
30	810	7590	2800	1150	---	4910	8080	9700	2610	1370	734	533
31	765	---	2700	1100	---	4600	---	12900	---	1290	694	---
TOTAL	25605	126737	191550	54050	69790	107780	317850	209160	213230	72180	29169	16371
MEAN	826	4225	6179	1744	2407	3477	10600	6747	7108	2328	941	546
MAX	1270	7700	12200	4200	6000	5720	19200	12900	21400	3250	1230	614
MIN	493	624	2700	1070	1000	1850	4420	3720	1820	1290	694	405

CAL YR 1983 TOTAL 1301807 MEAN 3567 MAX 15800 MIN 336
WTR YR 1984 TOTAL 1433472 MEAN 3917 MAX 21400 MIN 405

BEST COPY AVAILABLE

01066000 SACO RIVER AT CORNISH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to September 1981.
WATER TEMPERATURES: July 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum >310 micromhos (monitor limitation) Nov. 6, Dec. 13, 23, 24, 26, 27, 1978; minimum, 16 micromhos Oct. 13, 1978.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 01...	1530	804	42	6.7	8.0	6.0	1.2	780	12.0	94	K6	K7
DEC 09...	1500	5840	28	6.2	4.0	0.0	1.4	772	14.8	100	K8	31
FEB 15...	1600	1200	43	6.5	8.0	0.0	1.5	768	14.2	96	24	K16
APR 23...	1200	9790	26	6.3	18.5	7.0	<1.0	758	13.1	108	3	1
JUN 21...	1300	2400	27	6.6	20.0	21.5	1.0	765	9.0	102	2	2
SEP 04...	1500	613	40	6.9	18.5	19.5	0.7	762	8.9	97	21	54

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 01...	10	2.9	0.6	3.7	0.6	9.0	6.0	4.8	0.3	6.6	31	31
DEC 09...	7	2.1	0.3	2.5	0.4	4.0	4.8	2.7	0.2	5.5	30	21
FEB 15...	9	2.6	0.5	3.4	0.5	6.0	4.5	4.2	0.2	7.1	42	27
APR 23...	6	1.8	0.3	2.2	0.4	4.0	3.6	2.8	0.2	4.9	26	19
JUN 21...	8	2.4	0.4	2.7	0.5	5.0	4.0	3.9	0.2	5.6	20	23
SEP 04...	9	2.7	0.5	2.9	0.6	8.0	8.6	4.2	0.3	6.0	29	31

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BEST COPY AVAILABLE

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
NOV 01...	0.12	0.07	0.09	0.2	0.09	0.01	<0.01	80	<1	12.00
DEC 09...	<0.1	0.16	0.21	0.2	0.02	0.05	<0.01	--	<1	16.00
FEB 15...	0.13	<0.01	0.01	0.1	<0.01	<0.01	<0.01	100	<1	16.00
APR 23...	<0.1	0.09	0.12	0.3	0.01	<0.01	<0.01	100	<1	10.00
JUN 21...	<0.1	0.20	0.26	0.5	<0.01	<0.01	<0.01	--	--	--
SEP 04...	<0.1	<0.01	0.01	0.3	<0.01	0.03	<0.01	--	--	--

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 01...	<0.50	<1	<1	<3.00	2	110	2	10	12	<0.1
DEC 09...	<0.50	<1	--	<3.00	1	70	1	<4.00	14	<0.1
FEB 15...	<0.50	<1	<1	<3.00	2	180	10	<4.00	24	<0.1
APR 23...	<1.00	<1	<1	<3.00	1	60	1	<4.00	14	<0.1
JUN 21...	--	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 01...	<10	<1	<1	<1	20	<6.0	9.00	1	2.2	100
DEC 09...	<10	1	<1	--	20	<6.0	6.00	3	47	100
FEB 15...	<10	1	<1	2	20	<6.0	10	1	3.2	100
APR 23...	<10	1	<1	<1	10	<6.0	10	7	185	11
JUN 21...	--	--	--	--	--	--	--	3	19	58
SEP 04...	--	--	--	--	--	--	--	6	9.9	--

BEST COPY AVAILABLE

01069500 MOUSAM RIVER NEAR WEST KENNEBUNK, ME

LOCATION.--Lat 43°25'04", long 70°39'32", York County, Hydrologic Unit 01060003, on right bank 100 ft upstream from highway bridge, 1.4 mi downstream from Middle Branch, and 4.0 mi west of West Kennebunk.

DRAINAGE AREA.--99.0 mi².

PERIOD OF RECORD.--October 1939 to September 1984 (Discontinued).

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 170 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Square Pond and Mousam and Estes Lakes, combined capacity about 700,000,000 ft³ and powerplants upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--45 years, 185 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,020 ft³/s Mar. 20, 1983, gage height, 5.64 ft; minimum daily, 0.40 ft³/s Nov. 10, 15, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,110 ft³/s Apr. 6, gage height, 4.97 ft; minimum daily, 9.3 ft³/s Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	64	494	291	163	516	387	375	1570	175	12	13
2	13	53	415	276	163	455	428	263	1380	125	12	12
3	13	62	447	259	163	409	468	246	1510	23	12	11
4	98	177	482	246	163	369	481	387	1100	24	13	12
5	61	1140	458	240	167	350	840	540	859	26	13	12
6	13	765	468	230	239	345	2640	480	709	149	12	11
7	13	524	943	252	259	307	1660	429	635	207	121	11
8	12	427	858	221	229	268	1190	434	562	258	175	12
9	12	351	624	203	209	255	930	543	499	231	66	12
10	12	305	565	197	190	238	765	480	448	204	13	12
11	12	487	522	196	183	220	677	414	415	192	13	12
12	12	498	480	185	182	205	609	401	380	187	13	13
13	107	381	708	179	180	189	540	391	369	185	13	12
14	154	323	1230	178	189	179	526	394	377	185	14	12
15	154	287	1070	178	299	178	507	433	375	183	122	12
16	135	433	824	178	631	178	592	417	337	164	141	12
17	166	652	703	178	632	178	787	347	317	24	16	12
18	160	504	613	174	564	178	715	356	299	26	17	12
19	152	399	560	178	528	185	675	317	277	125	17	12
20	135	341	494	178	568	353	627	278	247	182	18	12
21	134	392	449	178	597	470	613	214	229	182	18	11
22	126	463	452	178	518	683	526	208	221	71	126	10
23	101	387	464	178	470	728	485	191	216	25	66	10
24	126	342	443	175	478	633	607	247	209	22	13	10
25	130	758	332	99	591	582	827	235	215	14	13	90
26	142	1180	298	11	813	547	705	224	223	13	13	169
27	132	708	311	112	681	508	605	229	203	112	13	65
28	104	539	316	182	594	448	539	220	199	172	92	9.3
29	120	576	457	170	565	415	497	486	167	170	185	9.3
30	90	613	370	163	---	381	468	1240	181	67	68	9.3
31	80	---	291	163	---	364	---	1300	---	12	13	---
TOTAL	2732	14131	17141	5830	11208	11314	21921	12719	14728	3735	1453	631.9
MEAN	88.1	471	553	188	386	365	731	410	491	120	46.9	21.1
MAX	166	1180	1230	291	813	728	2640	1300	1570	258	185	169
MIN	12	53	291	11	163	178	387	191	167	12	12	9.3
†	314	452	371	372	449	455	498	600	484	472	458	431

CAL YR 1983 TOTAL 114678.7 MEAN 314 MAX 3140 MIN 6.1
WTR YR 1984 TOTAL 117543.9 MEAN 321 MAX 2640 MIN 9.3

† Monthend contents, in millions of cubic feet, in Square Pond and Mousam Lake; records furnished by town of Sanford.

BEST COPY AVAILABLE

01072100 SALMON FALLS RIVER AT MILTON, NH

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, Hydrologic Unit 01060003, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 mi^2.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft, from topographic map.

REMARKS.--Records good except for period of shifting control Nov.25 to Jan. 2, which are fair. Flow regulated by Great East and Lovell Lakes, and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft^3. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--16 years, 206 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft^3/s Apr. 6, 1984, gage height, 6.70 ft; minimum daily, 19 ft^3/s Aug. 30, Sept. 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,000 ft^3/s Apr. 6, gage height, 6.70 ft; minimum daily, 35 ft^3/s Aug. 26 to Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	83	575	375	126	420	331	141	2290	158	57	35
2	84	85	492	309	118	286	354	164	1960	99	57	35
3	84	93	427	269	110	231	393	175	1750	55	56	35
4	84	98	396	249	110	233	434	240	1140	55	55	35
5	84	245	382	235	127	226	744	353	739	56	55	35
6	84	419	368	232	149	226	3210	396	659	176	55	35
7	84	404	546	232	161	214	2840	368	594	277	55	35
8	84	147	838	228	157	196	1780	330	515	452	51	35
9	84	57	730	213	147	181	1070	364	472	367	46	35
10	84	79	604	208	136	162	778	385	447	288	46	35
11	84	157	501	210	124	151	509	301	366	241	46	35
12	84	215	434	193	121	95	463	280	231	208	46	35
13	96	250	442	186	121	71	568	333	138	154	43	35
14	109	382	1380	175	125	136	550	470	112	122	41	35
15	109	427	1850	173	170	137	506	472	193	114	41	35
16	109	375	1380	171	364	136	520	427	215	94	41	35
17	130	411	1050	169	558	151	613	402	192	83	41	35
18	139	427	861	161	606	170	638	304	172	69	40	35
19	134	382	635	156	587	208	595	235	126	60	40	35
20	126	347	475	155	557	280	494	254	84	60	40	36
21	126	191	396	149	547	371	501	267	91	60	38	57
22	124	84	404	139	501	467	482	208	92	60	36	84
23	124	144	427	134	428	575	446	178	86	60	36	84
24	133	240	411	136	399	544	469	251	80	58	36	84
25	142	635	375	149	474	473	543	266	84	56	36	84
26	142	1230	340	171	680	365	518	241	133	61	35	84
27	142	1090	334	182	807	328	444	232	152	61	35	84
28	142	762	328	172	666	345	400	321	140	61	35	84
29	139	625	419	157	511	364	371	791	163	61	35	84
30	122	635	475	142	---	360	226	2060	174	60	35	84
31	82	---	450	136	---	336	---	2140	---	58	35	---
TOTAL	3378	10719	18725	5966	9687	8438	21790	13349	13590	3794	1344	1514
MEAN	109	357	604	192	334	272	726	431	453	122	43.4	50.5
MAX	142	1230	1850	375	807	575	3210	2140	2290	452	57	84
MIN	82	57	328	134	110	71	226	141	80	55	35	35

CAL YR 1983 TOTAL 102394 MEAN 281 MAX 2240 MIN 39
WTR YR 1984 TOTAL 112294 MEAN 307 MAX 3210 MIN 35

BEST COPY AVAILABLE

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		ST. JOHN RIVER BASIN				
Machias River	Aroostook River	Lat 46°37'42", long 68°26'07", Aroostook County, upstream side of highway bridge on the Garfield Road in Ashland.	330		04-23-84	3280
Madawaska River	"	Lat 46°53'04", long 67°56'53", Aroostook County, upstream side of highway bridge on State Route 233, Caribou.			04-25-84	3800
		NARRAGUAGUS RIVER BASIN				
Narraguagus River	Atlantic Ocean	Lat 44°35'52", long 67°55'32", Washington County, upstream side of US route 1 highway bridge in Cherryfield.			04-10-84	1860
		PENOBSCOT RIVER BASIN				
Mattawamkeag River	Penobscot River	Lat 45°46'33", long 67°56'19", Aroostook County, upstream side of the Bancroft Road highway bridge near Haynesville.			04-26-84	7420
Davis Stream	Piscataquis River	Lat 45°16'59", long 69°25'35", Piscataquis County, upstream side of the Goodall bridge in Willimantic.			05-03-84	166
Piscataquis River	Penobscot River	Lat 45°14'03", long 68°57'33", Piscataquis County, downstream side of the highway bridge on route 11 in Milo.			04-20-84	8700
Passadumkeag River	Penobscot River	Lat 45°10'05", long 68°19'02", Penobscot County upstream side of highway bridge on town road near Saponac village.			04-09-84	1180
*Penobscot River	Atlantic Ocean	Lat 44°56'28", long 68°39'12", Penobscot County, downstream side of highway bridge at Indian Island in Old Town.			04-09-84	21200
Kenduskeag Stream	Penobscot River	Lat 44°49'35", long 68°48'25", Penobscot County, upstream side of Bullseye bridge on Griffin Road in Bangor.			04-06-84	4180
Souadabscook Stream	Penobscot River	Lat 44°45'50", long 68°52'26", Penobscot County, upstream side of the Emerson Mill highway bridge in Hampden.			04-06-84	1540
*Penobscot River	Atlantic Ocean	Lat 44°34'11", long 68°47'27", Hancock County, at the boat ramp on Verona Island 300 ft upstream from the Bucksport Verona Island Bridge.			07-20-84 07-20-84	5600 7560
*Penobscot River	Atlantic Ocean	Lat 44°34'10", long 68°47'20", Hancock County, upstream side of the U.S. route 1 Bucksport Verona Island highway bridge.			05-17-84 07-20-84	11800 7470
		SHEEPSCOT RIVER				
Robinhood Cove	Sasanoa	Lat 43°48'09", long 69°45'07" Sagadahoc County, upstream side of the State route 127 highway bridge at Georgetown.			04-17-84	587
Robinhood Cove	Sasanoa	Lat 43°48'15", long 69°44'54" Sagadahoc County, upstream side of the State route 127 highway bridge at Georgetown.			04-17-84	301

BEST COPY AVAILABLE

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		KENNEBEC RIVER BASIN				
Kennebec River 01041000	Atlantic Ocean	Lat 45°35'08", long 69°43'05", Somerset County, downstream side of State Route 15 highway bridge at Moosehead.	1268	many	06-01-84	18000
No. Branch Dead River	Flagstaff Lake	Lat 45°11'48", long 70°27'26", Franklin County, upstream side of highway bridge on town road in Eustis.			05-25-84	543
So. Branch Dead River	Flagstaff Lake	Lat 45°06'17", long 70°31'34", Franklin County, upstream side of highway bridge on town road is Coplin Plantation.			05-25-84 05-30-84	228 1230
Nash Stream	South Branch Dead River	Lat 45°06'57", long 70°28'28", Franklin County, upstream side of State Route 16 highway bridge in Coplin.			05-25-84 05-30-84	107 1050
So. Branch Dead River	Flagstaff Lake	Lat 45°09'09", long 70°26'50", Franklin County, upstream side of State Route 27 highway bridge near Stratton.			05-25-84	398
Austin Stream	Kennebec	Lat 45°03'25", long 69°53'10", Somerset County, at the mouth, at Bingham.	90.3	many	08-22-84	25.4
Carrabassett River	Kennebec River	Lat 44°51'14", long 69°53'45", Somerset County, upstream side of U.S. route 201A highway bridge at No. Anson.			05-03-84	1480
West Branch Sebasticook River	Kennebec River	Lat 44°52'45", long 69°26'48", Somerset County, 1200 ft. downstream downstream from Route 23 highway bridge in Hartland.			08-23-84 08-23-84	24.5 41.9
West Branch Sebasticook River	Kennebec River	Lat 44°50'02", long 69°24'27", Somerset County, upstream side of U.S. route 2 highway bridge at West Palmyra.			04-20-84	2580
		ANDROSCOGGIN RIVER BASIN				
Swift River	Androscoggin River	Lat 44°33'17", long 70°32'43", downstream side of Route 2 highway bridge at Rumford.	125	many	04-19-84 06-06-84 08-10-84	857 339 31.8
Androscoggin River	Kennebec River	Lat 44°27'38", long 70°18'15", Oxford County, upstream side of state route 140 highway bridge at Gilbertville.			04-17-84	20300
Dead River	Androscoggin River	Lat 44°20'44", long 70°09'02", Androscoggin County, upstream side of state route 219 highway bridge near north Leeds.			04-10-84	989
Androscoggin River	Kennebec River	Lat 44°20'30", long 70°11'21", Androscoggin County, upstream side of state route 219 highway bridge right channel near north Leeds.			04-10-84	15000
*Androscoggin River	Kennebec River	Lat 44°20'31", long 70°11'13", Androscoggin County, upstream side of State route 219 highway bridge left channel near North Leeds.			04-10-84	1010
Little Androscoggin River 01058500	Androscoggin River	Lat 44°03'49", long 70°16'28", Androscoggin County, upstream side of highway bridge at Littlefields Corner.	328	many	04-06-84	6280
Sabattus River	Androscoggin River	Lat 44°02'00", long 70°06'15", Androscoggin County, on the upstream side of the Webster Road highway bridge in Lisbon.			09-04-84 09-12-84	221 168

BEST COPY AVAILABLE

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		SACO RIVER BASIN				
Saco River	Atlantic Ocean	Lat 43°52'42", long 70°48'15", Oxford County, downstream side of Route 5 highway bridge in Hiram.		many	04-09-84	12700
*Saco River	Atlantic Ocean	Lat 43°41'24", long 70°36'31", Cumberland County, upstream side of state route 35 highway bridge over the left channel of the Saco River at Bonny Eagle.			04-10-84	17000
*Saco River	Atlantic Ocean	Lat 43°29'52", long 70°27'20", York County, upstream side of the US route 1 bridge over the right channel of the Saco River at Biddeford.			04-10-84	9070

* Measurement represents the flow in one channel only

BEST COPY AVAILABLE

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

ST. JOHN RIVER BASIN

01010000 - ST. JOHN RIVER AT NINEMILE BRIDGE, ME (LAT 46 42 00 LONG 069 42 59)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMP.R-ATURE, AIR (DEG C)	CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					
13...	1415	1510	8.0	15.0	45
NOV					
11...	1000	2440	1.0	-9.0	45
JAN , 1984					
06...	1315	966	1.0	3.0	65
MAY					
20...	0900	4110	9.0	12.0	66
JUN , 1984					
14...	0745	1120	12.0	12.0	60
JUL					
25...	0950	5560	19.0	20.0	63
AUG					
08...	1230	528	23.0	23.0	65

01010070 - BIG BLACK RIVER NEAR DEPOT MTN, ME (LAT 46 53 38 LONG 069 45 08)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMP.R-ATURE, AIR (DEG C)	CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					
12...	1700	124	5.0	8.0	52
13...	1000	116	7.0	9.0	52
NOV					
10...	1350	424	7.0	14.0	64
JAN , 1984					
05...	1115	131	1.0	9.0	81
MAY , 1984					
22...	1500	420	11.0	13.0	55
JUL					
25...	1830	526	20.0	19.0	70
AUG					
08...	0915	226	19.0	21.0	79

01010500 - ST. JOHN RIVER AT DICKEY, ME (LAT 47 06 44 LONG 069 05 25)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMP.R-ATURE, AIR (DEG C)	CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					
20...	0845	1460	4.0	-1.0	62
NOV					
09...	1545	5750	4.0	6.0	55
DEC					
13...	0845	4400	1.0	.0	61
JAN , 1984					
04...	1430	1890	.0	.0	60
31...	1500	1190	.0	-2.0	70
MAR , 1984					
13...	1045	1470	.0	-20.0	66
APR					
24...	0630	25600	.0	1.0	33
JUN					
20...	0845	3400	18.0	18.0	50
AUG					
15...	0900	4490	25.0	25.0	46

01011000 - ALLAGASH RIVER NEAR ALLAGASH, ME (LAT 47 04 14 LONG 069 04 51)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMP.R-ATURE, AIR (DEG C)	CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					
20...	1000	824	6.0	1.0	56
NOV					
10...	1130	1480	7.0	5.0	54
DEC					
13...	0930	2440	.0	1.0	46
JAN , 1984					
04...	1530	1530	.0	4.0	73
31...	1645	660	.0	-2.0	56
FEB					
01...	1345	653	.0	-13.0	56
MAR , 1984					
13...	1500	758	.0	-15.0	60
MAY					
15...	1245	7410	23.0	24.0	43
JUN					
20...	1045	3410	18.0	20.0	44
AUG					
15...	1245	1210	23.0	22.0	43

01013500 - FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14 LONG 068 34 56)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMP.R-ATURE, AIR (DEG C)	CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					
20...	1600	452	8.5	2.5	65
DEC					
13...	1415	2900	1.0	2.0	62
FEB , 1984					
01...	0830	543	.5	-20.0	69
MAR					
13...	1745	763	.0	-10.0	61
APR , 1984					
24...	1845	7800	3.0	6.0	58
JUN					
19...	1745	1950	17.5	20.0	56
AUG					
16...	1100	1780	--	--	53
31...	0845	1040	--	--	44

01014000 - ST. JOHN RIVER BELOW FISH R, AT FORT KENT, ME (LAT 47 15 27 LONG 068 35 35)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMP.R-ATURE, AIR (DEG C)	CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					
21...	0745	3190	5.0	-3.0	89
DEC					
13...	1115	9340	1.0	1.0	64
APR , 1984					
24...	1430	52600	.0	19.0	66
JUN , 1984					
20...	1910	10000	20.0	20.0	65
AUG					
16...	0715	9020	21.0	19.5	52
30...	1725	3470	22.0	22.0	37

BEST COPY AVAILABLE

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
ST. JOHN RIVER BASIN--Continued					
01015800 - AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21 LONG 068 22 23)					
OCT , 1983					
21...	1445	562	5.5	7.0	52
NOV					
08...	1445	1680	6.0	14.0	49
DEC					
12...	1345	2220	.0	-6.0	43
JAN , 1984					
03...	1700	1120	.0	-9.0	45
30...	1645	410	.0	-12.0	59
MAR					
12...	1345	562	.0	-11.0	55
APR , 1984					
23...	1400	785	.0	21.0	33
JUN					
19...	1245	1760	20.0	25.0	44
AUG					
09...	1700	334	24.0	25.0	58
14...	1500	279	25.0	27.0	54
30...	1530	380	20.0	22.0	37
01017000 - AROOSTOOK RIVER AT WASHBURN, ME (LAT 46 46 36 LONG 068 09 29)					
OCT , 1983					
19...	1600	1170	7.5	7.0	65
DEC					
12...	1630	4300	.0	-6.0	53
FEB , 1984					
02...	1000	1280	.0	-18.0	73
APR					
25...	1430	19600	2.0	3.0	137
JUN , 1984					
21...	0900	5560	18.5	16.0	45
AUG					
09...	1945	650	23.0	23.0	99
16...	1430	957	28.0	23.0	66
ST. CROIX RIVER BASIN					
01018500 - ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08 LONG 067 25 47)					
OCT , 1983					
19...	1100	435	10.5	12.0	29
DEC					
14...	1245	278	1.0	2.0	30
FEB , 1984					
02...	1315	1530	.5	-11.0	29
MAR , 1984					
15...	1445	1540	2.0	4.0	30
MAY					
15...	1230	2220	12.0	15.0	23
JUL					
11...	1115	2380	18.0	20.0	26
01019000 - GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23 LONG 067 46 06)					
OCT , 1983					
19...	0845	195	12.0	6.0	25
DEC					
14...	1430	225	1.0	2.0	25
FEB , 1984					
02...	1500	764	.5	-3.0	24
MAR , 1984					
15...	1600	492	2.0	5.0	25
MAY					
15...	1515	931	7.0	9.0	24
JUL					
11...	0745	560	19.0	14.0	25
01021000 - ST. CROIX RIVER AT BARING, ME (LAT 45 08 12 LONG 067 19 05)					
OCT , 1983					
18...	1400	1410	13.5	20.0	150
DEC					
14...	1600	9900	1.0	3.0	56
FEB , 1984					
02...	1630	3060	1.0	.0	108
MAR , 1984					
16...	0830	3040	2.0	5.0	93
MAY					
15...	2000	5320	8.0	10.0	66
JUL					
10...	1800	6790	19.0	18.0	52
DENNYS RIVER BASIN					
01021200 - DENNYS RIVER AT DENNYSVILLE, ME (LAT 44 54 03 LONG 067 14 56)					
OCT , 1983					
18...	1100	89	10.0	12.0	42
DEC					
15...	0900	1100	2.0	6.0	30
FEB , 1984					
03...	0900	157	1.0	-4.0	35
MAR					
16...	0930	381	1.5	1.0	32
APR , 1984					
10...	1530	432	2.0	3.0	18
MAY					
16...	0800	349	8.0	8.0	27
JUL					
10...	1400	387	25.0	21.0	40
AUG					
31...	1420	86	--	--	26

BEST COPY AVAILABLE

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
PLEASANT RIVER BASIN					
01022260 - PLEASANT RIVER NEAR EPPING, ME (SW SITE 13) (LAT 44 41 52 LONG 067 47 16)					
OCT , 1983					
18...	0830	64	9.0	13.0	34
DEC					
15...	1245	833	2.5	7.0	26
21...	1400	270	.0	-6.0	30
FEB..1984					
03...	1245	150	.0	-12.0	26
MAR					
16...	1100	176	1.0	5.0	24
APR , 1984					
10...	1815	533	2.0	2.0	14
MAY					
16...	1130	248	8.0	10.0	23
JUN					
01...	1430	430	11.0	12.0	44
JUL					
10...	1000	254	20.0	25.0	22
PENOBSCOT RIVER BASIN					
01030000 - PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45 34 01 LONG 068 24 10)					
DEC , 1983					
01...	1000	8930	3.0	3.0	34
JAN , 1984					
18...	1300	6520	.5	-3.0	42
APR					
04...	1545	7380	4.0	12.0	50
19...	0655	16100	4.0	2.0	46
JUL , 1984					
12...	1500	5640	19.0	18.0	44
AUG					
30...	1145	6230	21.0	23.0	27
01030500 - MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18 LONG 068 18 07)					
OCT , 1983					
06...	1035	613	12.0	15.5	60
DEC					
01...	0900	13900	1.0	1.0	32
JAN , 1984					
18...	1500	1230	1.0	-2.0	34
APR , 1984					
19...	0900	13600	6.0	4.0	35
JUL					
11...	1440	4840	18.0	21.0	41
01031500 - PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31 LONG 069 18 55)					
NOV , 1983					
30...	1130	1690	9.0	9.0	37
DEC					
22...	0830	690	1.0	-11.0	40
JAN , 1984					
19...	0900	210	1.0	-15.0	48
FEB					
13...	1400	195	1.0	9.0	65
APR , 1984					
03...	1745	1240	1.0	15.0	40
17...	1630	4670	8.0	13.0	38
JUL					
12...	1640	728	21.0	21.0	42
AUG					
30...	0840	34	23.0	22.0	38
01034500 - PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12 LONG 068 38 56)					
NOV , 1983					
30...	1545	39200	3.0	3.0	23
DEC					
22...	1145	13200	-9.0	1.0	50
APR , 1984					
19...	1545	52300	7.0	5.0	26
JUL					
12...	1115	16200	20.0	22.0	33
SHEEPSCOT RIVER BASIN					
01038000 - SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23 LONG 069 35 38)					
OCT , 1983					
04...	1720	14	18.0	18.0	73
NOV					
29...	1445	1480	4.0	10.0	33
JAN , 1984					
04...	1350	262	1.5	5.0	43
MAR					
02...	0825	647	1.0	4.0	32
28...	1945	739	3.0	10.0	35
MAY , 1984					
11...	1410	340	8.0	12.0	48
JUN					
04...	0912	1950	11.0	13.0	31
JUL					
02...	1240	187	26.0	32.0	47
30...	1417	58	22.0	26.0	52

BEST COPY AVAILABLE

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
KENNEBEC RIVER BASIN					
01042500 - KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25 LONG 069 57 48)					
OCT , 1983					
07...	1530	2350	13.5	14.0	35
NOV					
29...	1215	730	3.0	2.0	30
JAN , 1984					
26...	1700	6950	1.0	-4.0	34
APR					
03...	1400	6700	4.0	11.0	42
JUL , 1984					
06...	1000	985	22.0	23.0	31
AUG					
22...	1000	246	24.0	29.0	35
SEP					
18...	1300	6320	15.0	16.0	40
01046500 - KENNEBEC RIVER AT BINGHAM, ME (LAT 45 03 06 LONG 069 53 12)					
OCT , 1983					
06...	1530	2310	14.0	19.0	36
NOV					
29...	1030	4560	7.0	7.0	34
JAN , 1984					
26...	1400	6170	1.0	-3.0	30
FEB					
13...	1030	5970	1.0	10.0	38
APR					
03...	1130	6570	4.0	8.0	42
08...	0900	9390	7.0	17.0	37
MAY , 1984					
03...	1245	19900	10.0	17.0	52
JUL					
02...	1330	6610	23.0	25.0	49
06...	1200	8540	24.0	28.0	35
AUG					
22...	1400	525	23.0	31.0	27
SEP					
18...	1530	4720	23.0	21.0	38
01047000 - CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09 LONG 069 57 20)					
OCT , 1983					
07...	1220	268	12.0	15.0	44
NOV					
29...	1630	1540	5.0	5.0	25
JAN , 1984					
19...	1120	276	1.0	-10.0	28
APR					
03...	0930	1210	5.0	12.0	31
MAY , 1984					
03...	1300	1420	11.0	17.0	31
JUL					
06...	1310	1200	21.0	23.0	40
AUG					
23...	1000	154	21.0	26.0	29
01047730 - WILSON STREAM AT EAST WILTON, ME (LAT 44 36 55 LONG 070 11 42)					
OCT , 1983					
07...	0930	12	16.0	16.0	55
NOV					
29...	0930	221	3.0	3.0	42
JAN , 1984					
26...	1230	2	1.0	3.0	56
FEB					
14...	0700	78	1.0	4.0	60
MAR					
28...	0730	134	6.0	1.0	42
APR , 1984					
17...	1815	574	7.0	13.0	49
JUL					
06...	1500	71	25.0	32.0	46
AUG					
23...	1350	9.3	21.0	18.0	44
SEP					
04...	0745	6.0	19.0	19.0	42
01049000 - SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00 LONG 069 24 56)					
NOV , 1983					
30...	0945	4670	5.0	5.0	51
FEB , 1984					
14...	1030	377	1.0	11.0	90
MAR , 1984					
29...	1115	2540	1.0	.0	66
01049373 - MILL STREAM AT WINTHROP, ME (LAT 44 18 24 LONG 069 58 18)					
OCT , 1983					
05...	1650	12	15.0	12.5	63
JAN , 1984					
25...	1315	42	1.0	5.0	52
MAR					
02...	1352	149	1.0	4.0	70
JUN , 1984					
04...	1300	476	11.0	15.0	50
JUL					
05...	1530	76	24.0	24.0	24
30...	1147	29	23.0	28.0	59

BEST COPY AVAILABLE

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
KENNEBEC RIVER BASIN--Continued					
01049500 - COBBOSSEECONTEE STREAM AT GARDINER, ME (LAT 44 13 15 LONG 069 47 25)					
OCT , 1983					
27...	1615	112	10.0	10.0	71
NOV					
29...	1530	1490	4.5	4.0	53
DEC					
20...	1400	1620	1.0	4.0	55
JAN , 1984					
04...	1230	670	1.0	5.5	60
MAR					
02...	1000	1330	1.0	-3.5	62
MAR , 1984					
28...	1830	1160	2.0	3.0	73
MAY					
08...	1100	700	10.0	14.0	62
JUL					
30...	1220	114	--	31.0	66
SEP					
01...	1420	45	21.0	23.0	39
01049550 - TOGUS STREAM AT TOGUS, ME (LAT 44 15 57 LONG 069 41 55)					
OCT , 1983					
04...	1445	1.7	19.0	25.0	93
13...	1530	10	7.0	8.0	55
NOV					
07...	1530	28	7.0	8.0	50
23...	1200	112	3.0	8.0	82
DEC					
20...	1355	137	1.0	15.0	48
28...	1020	92	7.0	7.0	44
MAR , 1984					
02...	0905	108	1.5	4.0	40
29...	0850	103	1.0	5.0	49
APR					
16...	1345	143	5.0	5.0	39
JUN					
04...	0948	336	11.0	14.0	44
JUL					
30...	1455	5.8	32.0	24.0	46
ANDROSCOGGIN RIVER BASIN					
01052500 - DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40 LONG 071 03 25)					
OCT , 1983					
18...	1025	105	6.0	8.0	37
DEC					
12...	1300	191	.0	-4.0	32
JAN , 1984					
23...	1310	97	.0	-8.0	39
APR , 1984					
20...	1345	1750	2.5	8.5	22
AUG					
08...	0915	51	21.0	21.0	38
01053500 - ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57 LONG 071 07 46)					
OCT , 1983					
18...	1110	1750	9.5	9.0	34
DEC					
12...	1340	1850	1.0	-5.0	30
JAN , 1984					
23...	1455	2320	5.0	-8.0	30
MAR , 1984					
05...	0915	2110	.0	-4.0	32
APR					
20...	1755	4040	3.5	9.0	17
AUG					
08...	1045	1950	24.0	22.0	27
01054000 - ANDROSCOGGIN RIVER NEAR GORHAM, NH (LAT 44 26 10 LONG 071 11 27)					
OCT , 1983					
20...	1020	1810	9.0	4.5	81
NOV					
03...	1320	1930	12.0	11.0	78
DEC					
12...	1510	1960	1.0	-2.0	82
JAN , 1984					
24...	0735	2430	.5	-1.0	64
MAR , 1984					
02...	1415	2610	1.0	-4.0	49
APR					
20...	1005	7480	4.5	10.0	66
JUN					
01...	0905	16300	11.0	11.0	39
AUG					
08...	1450	2110	25.0	24.5	66
01054500 - ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44 32 33 LONG 070 32 50)					
OCT , 1983					
20...	1410	2230	19.0	10.0	91
DEC					
12...	0850	2950	4.0	-.5	98
APR , 1984					
25...	1230	16300	5.5	7.5	38

BEST COPY AVAILABLE

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
ANDROSCOGGIN RIVER BASIN--Continued											
01055500 - NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10 LONG 070 13 49)											
OCT , 1983						MAR , 1984					
05...	1330	36	14.0	12.0	82	28...	0855	601	4.0	13.0	40
28...	0800	73	5.0	8.0	61	JUN					
NOV						04...	1500	1610	11.0	17.0	30
23...	1611	755	2.0	13.0	52	JUL					
28...	1430	980	8.0	12.0	34	02...	1620	296	22.0	23.0	48
JAN , 1984						30...	1145	101	22.0	30.0	65
25...	1645	135	1.0	4.0	65	AUG					
MAR						29...	1400	60	17.0	17.0	52
02...	1240	530	1.5	-2.0	38						
01057000 - LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08 LONG 070 32 16)											
OCT , 1983						JAN , 1984					
03...	1500	10	17.0	26.0	60	24...	1320	57	.0	-1.0	48
NOV						MAR					
04...	1145	20	7.0	11.0	54	05...	1400	123	.0	-2.0	44
28...	1655	320	7.0	7.0	33	28...	1100	229	1.0	7.0	36
DEC						APR					
13...	1115	336	.5	2.0	55	11...	1215	415	4.0	11.0	32
14...	1345	2180	5.0	7.0	28	25...	1530	500	6.0	7.0	29
01059000 - ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20 LONG 070 12 31)											
DEC , 1983											
13...	1315	9460	1.0	4.5	59						
ROYAL RIVER BASIN											
01060000 - ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57 LONG 070 10 45)											
OCT , 1983						JAN , 1984					
21...	1340	49	8.0	10.0	109	25...	1350	125	.0	3.5	135
DEC						FEB					
15...	1020	2830	2.0	7.0	38	29...	1350	682	.0	5.0	61
SACO RIVER BASIN											
01064500 - SACO RIVER NEAR CONWAY, NH (LAT 43 59 27 LONG 071 05 29)											
DEC , 1983						AUG , 1984					
14...	1125	12400	2.0	3.5	19	30...	1818	182	23.5	26.0	53
MAR , 1984											
01...	0920	945	.0	-7.5	34						
01065500 - OSSIPEE RIVER AT CORNISH, ME (LAT 43 48 26 LONG 070 47 55)											
OCT , 1983						MAR , 1984					
19...	1230	225	11.5	10.5	39	01...	1140	2240	0.0	1.0	30
DEC						AUG					
14...	1445	3670	2.0	5.5	28	09...	1320	277	26.0	22.0	32
01069500 - MOUSAM RIVER NEAR WEST KENNEBUNK, ME (LAT 43 25 04 LONG 070 39 32)											
OCT , 1983						FEB , 1984					
21...	0840	254	12.0	4.0	84	29...	1040	565	1.5	3.5	41
DEC						JUN					
15...	1345	1050	2.0	6.5	40	19...	1620	254	22.0	25.0	51
JAN , 1984						AUG					
25...	0955	175	.5	3.0	67	06...	1115	14	24.5	28.0	64

BEST COPY AVAILABLE

ANDROSCOGGIN COUNTY

440730070035304. Local number, An 988C.
LOCATION.--Lat 44°07'23", long 70°04'02", Hydrologic Unit 01040002, on Bowdoin Road, 0.4 mi east of State Highway 126, in Sabattus.
Owner: U.S. Geological Survey.
AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.
WELL CHARACTERISTICS.--Wash-bored observation artesian well, diameter 1.5 in., depth 43 ft, screened 38 to 43 ft.
DATUM.--Altitude of land-surface datum is 220 ft. Measuring point: Top of pipe at land-surface datum, which is 2.7 ft above the general land surface.
PERIOD OF RECORD.--October 1976 to January 1984 and August 29, 1984 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.95 ft below land-surface datum, May 29, 1979; lowest measured, 6.34 ft, below land-surface datum, Jan. 27, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.33	NOV 28	4.60	DEC 28	5.41	JAN 24	5.04	AUG 29	4.98	SEP 27	4.84

AROOSTOOK COUNTY

464807068284401. Local number, Ar 1A.
LOCATION.--Lat 46°48'07", long 68°28'44", Hydrologic Unit 01010003, on State Highway 11, about 3.1 mi north of the village of Portage Lake.
Owner: William Condon
AQUIFER.--Bedrock of Ordovician age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 81 ft, open hole. There is a 1.5 in., pipe in the center, depth 24 ft.
DATUM.--Land-surface datum is 713.08 ft above sea level (Maine Department of Transportation bench mark). Measuring point: Top of 1.5 in. pipe coupling, at land-surface datum.
REMARKS.--Water-quality reocrds for the current year are published elsewhere in this report.
PERIOD OF RECORD.--November 1975 to current year. Records prior to October 1981 have not been published, but are available in the files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflowed, Jan. 27, 1976, Mar. 14, 1977, Apr. 27, 1978, and Apr.13, 1984; lowest measured 10.10 ft below land-surface datum, Jan. 13, 1976 and Feb. 25, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	5.60	DEC 13	2.00	FEB 13	3.20	APR 13	Q	JUN 14	3.00	AUG 11	3.46
28	6.90	28	5.50	22	2.35	27	2.67	28	3.58	28	3.50
NOV 14	2.75	JAN 13	4.00	MAR 15	3.50	MAY 14	3.64	JUL 13	2.70	29	3.72
29	2.40	27	5.00	27	3.50	29	2.38	29	3.30	SEP 14	5.80
										27	5.46

Q-Flowing

BEST COPY AVAILABLE

AROOSTOOK COUNTY--Continued

471457068353001. Local number, Ar 890.
LOCATION.--Lat 47°14'57", long 68°35'30", Hydrologic Unit 01010003, 0.25 mi southeast of the intersection of State Highways 11 and 161 and U.S. Highway 1, Fort Kent.
Owner: U.S. Geological Survey.
AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., November 1976 constructed depth 50 ft, open end. November 1982 measured depth 48 ft.
DATUM.--Altitude of land-surface datum is 530 ft. Measuring point: Floor of recorder shelter at land-surface datum, which is 3.0 ft above the general land surface.
PERIOD OF RECORD.--November 1976 to current year.
REVISIONS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.52 ft below land-surface datum, May 2, 1984; lowest, 15.28 ft below land-surface datum, Jan. 22 and 23, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.33	12.70	9.04	7.57	9.20	9.84	10.06	.89	2.06	5.46	6.04	8.61
10	12.31	12.43	8.22	8.01	9.46	9.98	8.79	1.22	2.86	5.42	6.53	8.99
15	12.30	12.08	7.62	7.85	9.61	10.03	7.39	1.44	3.66	5.43	7.01	9.42
20	12.38	11.73	7.47	8.42	9.44	10.14	4.08	2.28	4.29	4.59	6.90	9.66
25	12.51	11.29	7.49	---	9.49	10.07	7.79	2.65	4.90	5.02	7.54	10.03
EOM	12.71	9.90	7.75	---	9.48	9.93	1.09	2.82	5.05	5.50	8.12	10.33

WTR YR 1984 HIGH .52 MAY 2 LOW 12.74 OCT 28

463642069344601. Local number, Ar 891.
LOCATION.--Lat 46°36'42", long 69°34'46", Hydrologic Unit 01010002, about 2.7 mi west of the village of Clayton Lake, T 11, R 14.
Owner: International Paper Co.
AQUIFER.--Seboomook Formation of Devonian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 80 ft, open hole.
DATUM.--Altitude of land-surface datum is 1,050 ft. Measuring point: Electric tape gage index at land-surface datum, which is 2.8 ft above the general land surface.
PERIOD OF RECORD.--July 1978 to current year.
REVISIONS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.96 ft below land-surface datum, Apr. 26, 1983; lowest, 16.62 ft below land-surface datum, Aug. 23, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.50	14.99	11.88	11.98	13.83	13.56	11.21	---	11.57	14.93	14.89	15.85
10	14.65	14.40	10.97	12.93	14.29	13.66	8.84	---	13.17	14.26	15.25	16.06
15	[illegible]	13.30	10.71	13.31	12.65	13.56	9.14	---	14.08	14.31	15.29	16.23
20	[illegible]	13.13	10.47	13.89	13.03	12.28	8.79	---	14.05	13.09	15.38	16.30
25	15.26	13.15	11.07	14.00	13.11	13.00	8.58	11.64	14.65	13.64	15.60	16.18
EOM	15.56	11.73	11.75	14.32	13.20	12.89	9.56	10.72	14.22	14.25	15.89	16.33

WTR YR 1984 HIGH 8.19 APR 12 LOW 16.33 SEP 18 and 30

BEST COPY AVAILABLE

CUMBERLAND COUNTY

435453070013601. Local number, C 26.
LOCATION.--Lat 43°54'53", long 70°01'36", Hydrologic Unit 01060001, 0.3 mi northwest of the intersection of Durham Road and U.S. Highway 1 in Brunswick.
Owner: Brunswick and Topsham Water District.
AQUIFER.--Stratified sand and gravel deposits of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in., reported depth 101 ft in 1953, screened 81 to 101 ft. November 1982 measured depth 96 ft.
DATUM.--Altitude of land-surface datum is 139 ft. Measuring point: Electric tape gage index 2.93 ft above land-surface datum.
PERIOD OF RECORD.--April 1958 to current year.
REVISIONS.--Water levels, October 1979 to September 1981, are incorrectly referenced from land surface. They should be referenced from land-surface datum.
REVISED RECORDS.--WDR ME-82-1: 1978, 1981 WDR ME-83-1: 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.95 ft below land-surface datum, Jun. 9, 1984; lowest 36.41 ft below land-surface datum, Feb. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.41	30.67	28.96	28.14	28.32	28.93	28.95	28.17	26.17	26.41	26.78	27.38
10	30.55	30.44	28.74	28.27	---	28.98	28.77	28.02	25.98	26.45	26.89	27.47
15	30.54	30.29	28.37	---	---	29.03	28.77	27.81	26.06	26.50	26.95	27.56
20	30.65	29.96	28.17	---	---	29.03	28.59	27.70	26.15	26.57	27.06	27.61
25	30.68	29.70	28.04	28.47	---	29.02	28.43	27.68	26.24	26.61	27.18	27.76
EOM	30.78	29.09	28.17	28.37	28.80	29.00	28.25	27.24	26.34	26.70	27.25	27.87

WTR YR 1984 HIGH 25.95 JUN 09 LOW 30.80 NOV 01

HANCOCK COUNTY

444950068220601. Local number, H 1.
LOCATION.--Lat 44°49'50", long 68°22'06", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi west of the intersection with State Highway 181 in Amherst.
Owner: Forrest J. Webber
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 18 in., depth 14 ft, cased with rock to 14 ft, open end.
DATUM.--Altitude of land-surface datum is 330 ft. Measuring point: Top edge of hole in base of recorder shelter 0.65 ft below land-surface datum. It is 1.4 ft above the general land surface.
REMARKS.--Water-quality records for the current year are published elsewhere in this report.
PERIOD OF RECORD.--November 1943 to current year. Records for May 15-30, 1979; April 26-30, 1981; and the monthly summary for January 1981 are unreliable and should not be used.
REVISIONS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.
REVISED RECORDS.--WDR ME-82-1: 1981.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft below land-surface datum, May 29, 1961; lowest estimated, 17.8 ft below land-surface datum Sept. 27, 1965. Well goes dry frequently.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.92	12.93	4.26	4.82	4.40	4.31		---	3.81	6.11	---	11.33
10	13.07	12.67	4.03	5.25	4.75	5.10		---	4.73	5.76	---	11.71
15	12.38	11.78	---	5.71	3.58	5.65		---	5.37	5.92	---	11.94
20	12.19	9.24	---	5.05	4.10	---		5.33	5.82	6.14	---	12.06
25	12.37	4.43	4.33	5.43	4.21	---		5.71	6.28	---	---	12.35
EOM	12.70	3.67	4.38	6.04	4.01	---		5.05	5.64	---	10.89	12.64

WTR YR 1984 HIGH 2.45 DEC 14 LOW 13.10 OCT 11

BEST COPY AVAILABLE

HANCOCK COUNTY--Continued

441440068182701. Local number, H 137.
LOCATION.--Lat 44°14'40", long 68°18'27", Hydrologic Unit 01050002, Seawall Campground of Acadia National Park, 1.3 mi south of Southwest Harbor.
Owner: National Park Service.
AQUIFER.--Bedrock of Devonian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 175 ft, open hole.
DATUM.--Altitude of land-surface datum is 40 ft. Measuring point: Top of casing 1.3 ft above land-surface datum.
PERIOD OF RECORD.--June 1981 to current year. Water levels prior to October 1981 have not been published but are available in the files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.2 ft below land-surface datum, Mar. 23, 1984; lowest measured, 11.5 ft below land-surface datum, Nov. 4, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	9.7	DEC 08	8.5	FEB 09	8.5	APR 12	8.3	JUN 14	8.0	AUG 09	9.2
28	10.2	22	8.4	23	8.4	26	8.3	28	7.6	23	9.7
NOV 25	7.7	JAN 12	9.4	MAR 07	8.4	MAY 10	8.6	JUL 12	7.3	SEP 13	10.9
		26	8.9	23	7.2	23	7.9	26	8.3	27	11.4

KENNEBEC COUNTY

441849069442001. Local number, K 52.
LOCATION.--Lat 44°18'49", long 69°44'20", Hydrologic Unit 01030003, on Cony Road, 0.3 mi south of State Highway 105, in Augusta.
Owner: Walter Panek.
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in., depth 22 ft, cased with rock to 22 ft, open end.
DATUM.--Altitude of land-surface datum is 220 ft. Measuring point: Top of shelter house floor 0.07 ft below land-surface datum.
PERIOD OF RECORD.--December 1960 to current year.
REVISED RECORDS.--WDR ME-82-1: 1978, 1979, 1981.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.02 ft below land-surface datum, Apr. 25, 1983; lowest, 15.61 ft below land-surface datum, Nov. 28-30, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.59	12.20	4.44	5.10	---	---	3.90	4.47	---	---	---	9.13
10	11.90	11.13	4.30	5.40	---	---	4.25	4.55	---	---	---	9.38
15	12.08	8.97	3.83	---	---	---	4.34	4.00	---	---	---	9.55
20	12.13	4.23	4.50	---	---	---	3.97	4.60	---	---	---	9.67
25	12.19	3.62	---	6.55	---	---	3.90	---	---	---	---	9.80
EOM	12.24	4.05	4.43	6.72	---	---	4.54	---	---	---	8.96	9.95

WTR YR 1984 HIGH 3.62 NOV 25 LOW 12.24 OCT 31

BEST COPY AVAILABLE

KENNEBEC COUNTY--Continued

440918069564001. Local number, K 766.
LOCATION.--Lat 44°09'18", long 69°56'40", Hydrologic Unit 01030003, 690 ft northeast of the intersection of Hallowell Neck Road, Libby Road, and Plains Road, Litchfield.
Owner: U.S. Geological Survey.
AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 62 ft, cased to 59 ft, open end.
DATUM.--Altitude of land-surface datum is 300 ft. Measuring point: Floor of recorder shelter at land-surface datum, which is 2.7 ft above the general land surface.
PERIOD OF RECORD.--June 1976 to current year.
REVISIONS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.76 ft below land-surface datum, Jun. 02, 1984; lowest, 51.46 ft below land-surface datum, Sept. 21-24, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	47.23	47.85	45.23	43.41	43.97	43.28	42.21	40.93	---	40.94	41.94	43.15
10	47.43	47.63	44.62	43.57	44.10	43.42	40.96	41.08	---	40.98	42.18	43.38
15	47.39	47.55	43.27	43.65	44.09	43.49	41.25	40.54	---	41.14	42.32	43.48
20	47.52	47.20	43.20	43.81	43.77	43.34	40.98	40.89	---	41.32	42.52	43.62
25	47.63	46.50	43.36	43.91	43.67	42.72	40.80	41.19	---	41.54	42.66	43.81
EOM	47.81	45.25	43.26	44.02	43.71	42.58	40.90	39.86	40.79	41.63	42.90	44.02

WTR YR 1984 HIGH 38.76 JUN 2 LOW 47.91 NOV 4

440810069553601. Local number, K 872 A.
LOCATION.--Lat 44°08'17", long 69°55'36", Hydrologic Unit 01030003, on Small Road, 0.40 mi north of State Highway 197, Litchfield.
Owner: Stephen Condon.
AQUIFER.--Bedrock of Devonian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 404 ft, cased to bedrock, open end.
DATUM.--Altitude of land-surface datum is 220 ft. Measuring point: Top of casing at land-surface datum, which is 2.2 ft above the general land surface.
PERIOD OF RECORD.--November 1978 to current year.
REVISIONS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.
REVISED RECORDS.--WDR ME-82-1: 1980.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.35 ft below land-surface datum, Apr. 25, 1983; lowest, 19.11 ft below land-surface datum, Oct. 4, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.49	14.14	9.60	10.21	9.96	9.83	8.37	8.83	8.91	11.42	13.16	16.45
10	18.49	10.84	9.02	10.59	10.04	10.45	8.80	9.42	10.28	10.74	13.64	16.85
15	18.01	9.56	7.71	10.91	9.61	11.06	9.34	8.52	11.12	11.49	13.90	16.99
20	17.01	9.08	9.51	11.12	9.04	9.48	8.61	9.79	11.68	11.56	14.51	17.10
25	17.11	6.82	10.19	10.99	8.87	8.90	7.77	10.44	12.12	12.27	15.29	17.48
EOM	16.77	8.30	9.30	10.86	8.73	9.45	9.52	6.49	10.44	12.74	16.19	17.75

WTR YR 1984 HIGH 6.49 MAY 31 LOW 18.75 OCT 13

BEST COPY AVAILABLE

OXFORD COUNTY

444637070552301. Local number, O 400.
LOCATION.--Lat 44°46'37", long 70°55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake.
Owner: Union Water Power Co.
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 15 ft, cased with concrete pipe to 15 ft, open end.
DATUM.--Altitude of land-surface datum is 1,450 ft. Measuring point: Top of concrete pipe 1.8 ft above land-surface datum.
REMARKS.--Prior to 1973 well was used for domestic supply.
PERIOD OF RECORD.--April 1944 to current year. Records form May 16 to September 30, 1982 are unreliable and should not be used.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.4 ft above land-surface datum, Apr. 11, 1976; lowest measured, 12.2 ft below land-surface datum, Oct. 9, 16, 23, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	10.97	DEC 11	3.79	FEB 05	6.60	APR 01	4.64	JUN 03	0.99	AUG 05	7.49
09	10.74	18	2.38	12	7.38	15	1.25	10	3.69	12	8.35
16	10.85	25	3.85	19	6.00	22	1.70	17	4.72	19	8.98
23	10.65	JAN 01	4.70	26	5.75	29	1.75	JUL 01	4.86	26	9.62
30	10.95	08	5.23	MAR 04	5.63	MAY 06	2.23	08	3.83	SEP 09	10.59
NOV 06	10.50	15	5.57	25	4.28	13	1.75	15	4.58	23	11.40
13	9.51	22	6.23			20	3.15	22	5.79	30	11.76
20	7.57	29	6.45			27	3.30	29	6.88		
27	3.90										

442515070481001. Local number, O 616.
LOCATION.--Lat 44°25'15", long 70°48'11", Hydrologic Unit 01040002, at Bethel Airport, Bethel.
Owner: U.S. Geological Survey.
AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.
WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in., August 1978 constructed depth 21 ft, screened 16 to 21 ft. November 1982 measured depth 20 ft.
DATUM.--Altitude of land-surface datum is 650 ft. Measuring point: Top of casing 0.6 ft below land-surface datum, which is 2.0 ft above the general land surface.
REMARKS.--Water-quality records for the current year are published elsewhere in this report.
PERIOD OF RECORD.--August 1978 to current year.
REVISED RECORDS.--WDR ME-82-1: 1979, 1980, 1981. WDR ME-83-1: 1979.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.1 ft, below land-surface datum, Apr. 15, 1984; lowest measured, 12.6 ft below land-surface datum, Nov. 16, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	11.5	DEC 16	8.5	FEB 15	9.4	APR 15	6.1	JUN 17	7.2	AUG 20	9.6
31	11.6	28	8.5	27	9.0	29	6.4	29	7.9	30	9.9
NOV 28	9.6	JAN 16	8.5	MAR 19	9.4	MAY 15	7.1	JUL 30	8.4	SEP 06	9.9
		27	8.5	30	8.5	29	7.4			16	10.5
										28	10.8

440642070583401. Local number, O 615.
LOCATION.--Lat 44°06'41", long 70°58'32", Hydrologic Unit 01060002, at the intersection of State Highway 113 and road to Fish Street, Fryeburg.
Owner: U.S. Geological Survey.
AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.
WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in., depth 40 ft, which is screened 35 to 40 ft.
DATUM.--Altitude of land-surface datum is 390 ft. Measuring point: Top of casing at land-surface datum, which is 2.9 ft above the general land surface.
REMARKS.--Water-quality records for the current year are published elsewhere in this report.
PERIOD OF RECORD.--August 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.20 ft below land-surface datum, Mar. 20, 1983; lowest measured, 11.58 ft below land-surface datum, Oct. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	10.25	DEC 17	5.10	FEB 19	7.00	APR 06	3.50	JUN 03	4.60	SEP 06	9.90
NOV 13	8.50	JAN 02	7.40	MAR 21	5.70	MAY 10	5.70	18	7.70	22	10.20
		23	8.50					JUL 27	8.70		

BEST COPY AVAILABLE

OXFORD COUNTY--Continued

440823070291501. Local number, O 1214.
LOCATION.--Lat 44°08'23", long 70°29'15", Hydrologic Unit 01040002, on State Highway 121, about 0.1 mi east of the intersection with Skeetfield Road, in Oxford.
Owner: U.S. Geological Survey.
AQUIFER.--Stratified sand (outwash) of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., September 1980 constructed depth 39 ft, cased with 6 in. steel to 35 ft, screened 35 to 39 ft. November 1982 measured depth 38 ft.
DATUM.--Elevation of land surface datum is 334.04 ft. Measuring point: Electric tape gage index at land surface datum, which is 1.2 ft above the general land surface.
REMARKS.--Test hole adjacent to this well shows a depth to bedrock of 174 ft.
REVISIONS.--Water levels, September 1980 to September 1981, were incorrectly reported from land surface. They should be referenced from the land-surface datum.
PERIOD OF RECORD.--September 1980 to current year.
REVISED RECORDS.--WDR ME-82-1: 1981.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.07 ft below measuring-point datum, Jun. 3, 1984; lowest, 10.13 ft below measuring-point datum, Oct. 23-25, 1980.

WATER LEVEL, IN FEET BELOW MEASURING-POINT DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.68	8.86	7.22	6.92	7.57	7.06	6.50	5.04	4.20	5.79	6.94	7.99
10	8.79	8.27	6.99	7.05	7.64	7.19	5.21	5.08	4.61	5.91	7.13	8.14
15	8.74	8.24	6.46	7.17	7.71	7.31	5.13	4.87	4.95	6.10	7.30	8.23
20	8.88	8.08	6.43	7.25	7.41	7.21	5.00	5.07	5.25	6.33	7.47	8.35
25	8.93	7.79	6.58	7.34	7.21	6.88	4.96	5.31	5.46	6.53	7.65	8.51
EOM	9.02	7.71	6.80	7.45	6.92	6.82	5.03	4.51	5.52	6.77	7.86	8.58

WTR YR 1984 HIGH 4.07 JUN 3 LOW 9.06 NOV 3 AND 4

PENOBSCOT COUNTY

445319068560101. Local number, Pe 456.
LOCATION.--Lat 44°53'19", long 68°56'01", Hydrologic Unit 01020005, on Kenduskeag-Levant Road, 2.5 mi south of Kenduskeag, near Kenduskeag-Levant town line, Kenduskeag.
Owner: Clarence W. Parker, Jr.
AQUIFER.--Bedrock of Silurian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 98 ft, open hole.
DATUM.--Altitude of land-surface datum is 190 ft. Measuring point: Floor of fiberglass shelter 0.36 ft above land-surface datum, which is 4.3 ft above the general land surface.
PERIOD OF RECORD.--April 1978 to current year.
REVISIONS.--Water levels, September 1979 to October 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.92 ft below land-surface datum, Apr. 26, 1983; lowest, 26.64 ft below land-surface datum, Nov. 6, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.10	25.87	17.86	19.03	21.06	19.85	18.90	19.08	16.77	20.59	22.75	24.18
10	25.26	25.59	17.61	19.65	21.04	20.31	18.04	19.41	17.49	20.98	23.05	24.38
15	25.37	24.76	15.77	20.17	20.84	20.76	18.29	18.37	18.40	21.38	23.31	24.52
20	25.50	22.77	16.44	20.59	20.39	20.21	18.18	18.64	19.19	21.73	23.54	24.65
25	25.61	19.78	17.46	20.92	19.85	19.83	18.48	19.29	19.92	22.06	23.74	24.82
EOM	25.78	17.48	18.40	21.20	19.49	19.74	18.75	18.75	20.05	22.45	23.95	25.00

WTR YR 1984 HIGH 15.76 DEC 16 LOW 25.87 NOV 5

BEST COPY AVAILABLE

PENOBSCOT COUNTY--Continued

451955068344501. Local number, Pe 457.
LOCATION.--Lat 45°19'55", long 68°34'45", Hydrologic Unit 01020005, in Lincoln about 0.2 mi, southeast of U.S. Highway 2 in South Lincoln on road toward Pollack Brook (South Lincoln Station).
Owner: Lincoln Water District.
AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.
WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2.5 in., depth 39 ft, cased with iron pipe, open hole.
DATUM.--Altitude of land-surface datum is 200 ft. Measuring point: Top of casing 3.6 ft above land-surface datum.
REMARKS.--Water levels may be affected by pumping from nearby municipal well.
PERIOD OF RECORD.--July 1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.97 ft below land-surface datum, May 2, 1983; lowest measured, 24.72 ft below land-surface datum, Sept. 17, 1983

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	25.02	DEC 27	19.25	APR 01	20.60	JUN 01	19.20	JUN 08	16.60	AUG 24	22.41
26	24.83	JAN 16	19.93	19	19.63	04	16.65	29	19.25	SEP 21	23.53
NOV 28	14.10	FEB 28	20.70	25	19.35	06	16.60	JUL 16	19.42		

WASHINGTON COUNTY

450713067162801. Local number, W 796.
LOCATION.--Lat 45°07'13", long 67°16'28", Hydrologic Unit 01050001, in Calais, on Charlotte Road, about 2.25 mi south of U.S. Highway 1.
Owner: U.S. Government (Moosehorn National Wildlife Refuge).
AQUIFER.--Bedrock of Devonian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., September 1967 reported depth 150 ft, cased with steel to 21 ft, open hole. November 1982 measured depth 146 ft.
DATUM.--Altitude of land-surface datum is about 130 ft. Measuring point: Top of casing at land-surface datum, which is 0.8 ft above the general land surface.
PERIOD OF RECORD.--September 1980 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, overflowed Feb. 14, Sept. 25, and Dec. 16, 1981, Apr. 16, 1982, Mar. 20 and 26, Apr. 22 and 28, May 4, Jun. 1, 1983, Dec. 14 and 15, Apr. 3, 15, and 28; lowest measured, 5.34 ft below land-surface datum, Sept. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	4.48	DEC 14	Q	JAN 27	2.48	APR 03	Q	JUN 17	2.37	AUG 31	4.25
16	3.41	15	Q	FEB 22	0.74	15	Q	27	1.32	SEP 19	3.43
28	4.00	JAN 02	1.25	MAR 01	0.36	28	Q	AUG 16	3.85		
NOV 15	2.24	18	2.47	23	0.66	MAY 15	0.20				

Q - Flowing

BEST COPY AVAILABLE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	GEOLOGIC UNIT	DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AROOSTOOK COUNTY									
464807068284401	300BDRK	84-08-29	1710	--	270	7.1	10.5	74	23
HANCOCK COUNTY									
444950068220601	112TILL	84-08-29	0830	14.0	460	6.7	11.0	59	21
OXFORD COUNTY									
440642070583401	112OTSH	84-09-06	1000	38.0	235	6.2	10.0	36	8.8
442515070481001	112OTSH	84-09-06	1600	18.5	65	6.0	8.5	13	4.2
PENOBSCOT COUNTY									
445319068560101	300BDRK	84-08-29	1230	--	155	8.2	9.0	38	11

Geologic unit (aquifer):
112OTSH - Outwash, Pleistocene age.
112TILL - Till, Pleistocene age.
300BDRK - Bedrock, undifferentiated.

BEST COPY AVAILABLE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
AROOSTOOK COUNTY,--Continued									
464807068284401	4.1	3.8	9	0.2	11	70	54	12	<0.1
HANCOCK COUNTY,--Continued									
444950068220601	1.7	64	69	3.8	2.9	78	12	11	<0.1
OXFORD COUNTY,--Continued									
440642070583401	3.3	4.1	13	0.3	21	69	14	12	0.2
442515070481001	0.6	2.2	26	0.3	0.5	21	3.7	1.7	0.1
PENOBSCOT COUNTY,--Continued									
445319068560101	2.5	18	49	1.3	2.2	62	19	13	<0.1

BEST COPY AVAILABLE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
AROOSTOOK COUNTY,--Continued								
464807068284401	5.8	134	166	2.6	0.85	2.6	10000	480
HANCOCK COUNTY,--Continued								
444950068220 601	11	266	171	1.3	<0.01	--	60	8
OXFORD COUNTY,--Continued								
440642070583401	8.7	125	126	<0.1	<0.01	--	6900	6100
442515070481901	4.3	34	33	0.2	0.01	0.03	3400	47
PENOBSCOT COUNTY,--Continued								
445319068560101	9.3	102	113	<0.1	0.03	0.09	300	7

BEST COPY AVAILABLE

INDEX

	Page
Accuracy of field data and computed results..	10
Allagash, Allagash River near.....	17
Allagash River near Allagash.....	17
Ambajejus Lake, contents of.....	60
Androscoggin County, ground-water levels in..	132
Androscoggin River, at Brunswick.....	101-102
at Errol, NH.....	84
at Rumford.....	89
near Auburn.....	100
near Gorham, NH.....	85
Androscoggin River basin:	
gaging-station records in.....	83-102
reservoirs in.....	103
Aquifer, definition of.....	3
Aroostook County, ground-water levels in.....	132-133
Aroostook River at Caribou.....	29-30
at Washburn.....	28
near Masardis.....	27
Artesian, definition of.....	3
Auburn, Androscoggin River near.....	100
Aziscohos Lake, contents of.....	103
Bacteria, definition of.....	3
Bald Mountain, Bald Mountain Brook near.....	20
Bald Mountain Brook near Bald Mountain.....	20
Baring, St. Croix River at.....	33
Bed material, definition of.....	3
Big Black River near Depot Mountain.....	15
Bingham, Kennebec River at.....	64
Bishop Mountain, Bishop Mountain Brook near..	21
Bishop Mountain Brook near Bishop Mountain...	21
Brassua Lake, contents of.....	82
Brunswick, Androscoggin River at.....	101-102
Caribou, Aroostook River at.....	29-30
Caribou Lake, contents of.....	60
Carrabassett River near North Anson.....	65
Cfs-day, definition of.....	5
Chamberlain Lake, contents of.....	60
Cherryfield, Narraguagus River at.....	44-46
Chesuncook Lake, contents of.....	60
Clayton Lake, Clayton Stream at outlet.....	19
Clayton Stream at outlet of Clayton Lake.....	19
Cobbosseecontee Lake at East Winthrop.....	79
Cobbosseecontee Stream at Gardiner.....	80
Computation, accuracy of results of.....	10
Connors, New Brunswick, St. Francis River at outlet of Glasier Lake.....	18
Contents, definition of.....	5
Control, definition of.....	5
Control structure, definition of.....	5
Conway, NH, Saco River near.....	115
Cooperation.....	1
Cornish, Ossipee River at.....	117
Cornish, Saco River near.....	118-120
Cubic feet per second per square mile, definition of.....	5
Cubic foot per second, definition of.....	5
Cumberland County, ground-water levels in....	134
Data, accuracy of.....	10
explanation of.....	8-12
Dennys River at Dennysville.....	42
Dennysville, Dennys River at.....	42
Depot Mountain, Big Black River near.....	15
Diamond River near Wentworth Location, NH....	83
Dickey, St. John River at.....	16
Discharge, definition of.....	5
Dissolved, definition of.....	5
Dover-Foxcroft, Piscataquis River near.....	49
Drainage area, definition of.....	5
Drainage basin, definition of.....	5
East Outlet, Moosehead Lake at.....	62
East Wilton, Wilson Stream at.....	66
East Winthrop, Cobbosseecontee Lake at.....	79
Eddington, Penobscot River at.....	51-59
Effingham Falls, N.H., Ossipee River at.....	116
Elbow Lake, contents of.....	60
Epping, Pleasant River near.....	43
Errol, N.H., Androscoggin River at.....	84
First Roach Pond, contents of.....	82
Fish River at inlet Fish River Lake.....	22
Fish River Lake, Fish River at inlet.....	22
Fish River near Fort Kent.....	23
Flagstaff Lake, contents of.....	82
Fort Kent, Fish River near.....	23
Fort Kent, St. John River below Fish River at.....	24
Gage height, definition of.....	5
Gaging station, definition of.....	5
Gardiner, Cobbosseecontee Stream at.....	80
Gilead, Wild River at.....	86-88
Gorham, N.H., Androscoggin River near.....	85
Grand Lake, contents of.....	60
Grand Lake Stream at Grand Lake Stream.....	32
Grand Lake Stream, Grand Lake Stream at.....	32
Ground-water levels.....	132-139
Gulf Island Pond.....92-98,	103
Hancock County, ground-water levels in.....	134-135
Hardness, definition of.....	5
Hydrologic bench-mark station, definition of.....	8
Hydrologic conditions.....	3
graph of.....	4
Hydrologic unit, definition of.....	5
Indian Pond contents of.....	82
Johnson Brook at South Albion.....	68
Kennebec County, ground-water levels in....	135-136
Kennebec River at Bingham.....	64
at North Sidney.....	69-77
at The Forks.....	63
Kennebec River basin:	
gaging-station records in.....	62-81
reservoirs in.....	62, 82
Lake Auburn, contents of.....	103
Lakes and reservoirs:	
Ambajejus Lake.....	60
Aziscohos Lake.....	103
Brassua Lake.....	82
Caribou Lake.....	60
Chamberlain Lake.....	60
Chesuncook Lake.....	60
Cobbosseecontee Lake.....	79
Elbow Lake.....	60
First Roach Pond.....	82
Flagstaff Lake.....	82
Grand Lake.....	60
Gulf Island Pond.....	103
Indian Pond.....	82
Lake Auburn.....	103
Moose Pond.....	60
Moosehead Lake at East Outlet.....	62
Mooselookmeguntic Lake.....	103
Moxie Pond.....	82
North Twin Lake.....	60
Pemadumcook Lake.....	60
Rangeley Lake.....	103
Richardson Lakes.....	103
Ripogenus Lake.....	60
Round Pond.....	60
Sebec Lake.....	60
Second Lake.....	60
South Twin Lake.....	60
Telos Lake.....	60
Thompson Lake.....	103
Umbagog Lake.....	103
Wyman Pond.....	82
Land surface datum, definition of.....	5
Lewiston, Gulf Island Pond.....	92-98
Little Androscoggin River near South Paris.	99

BEST COPY AVAILABLE

	Page
Masardis, Aroostook River near	27
Mattawamkeag, Mattawamkeag near	48
Mattawamkeag, Penobscot River near	47
Mattawamkeag River near Mattawamkeag	48
Measuring point, definition of	5
Micrograms per liter, definition of	5
Milligrams per liter, definition of	5
Mill Stream at Winthrop	78
Milltown, St. Croix River at	34-41
Milton, N.H., Salmon Falls River at	122
Miscellaneous measurements of streamflow	123-125
of water temperature and specific conductance	126-131
Moose Pond, contents of	60
Moosehead Lake at East Outlet	62
Mooselookmeguntic Lake, contents of	103
Mousam River near West Kennebunk	121
Moxie Pond, contents of	82
Narraguagus River at Cherryfield	44-46
National Geodetic Vertical Datum of 1929 (NGVD), definition of	5
National stream-quality accounting network, definition of	8
Nezinscot River at Turner Center	91
Ninemile Bridge, St. John River at	14
North Anson, Carrabassett River near	65
North Sidney, Kennebec River at	69-77
North Whitefield, Sheepscot River at	61
North Twin Lake, contents of	60
Order of listing gaging stations	7
Ossipee River at Cornish	117
at Effingham Falls, NH	116
Oxford County, ground-water levels in	137-138
Partial-record station, definition of	6
Particle size, definition of	6
Particle size classification, definition of	6
Pemadumcook Lake, contents of	60
Penobscot County, ground-water levels in	138-139
Penobscot River at Eddington	51-59
at West Enfield	50
near Mattawamkeag	47
Penobscot River basin:	
gaging-station records in	47-59
reservoirs in	60
Percent composition, definition of	6
pH, definition of	6
Picocurie, definition of	6
Piscataquis River near Dover-Foxcroft	49
Pittsfield, Sebasticook River at	67
Pleasant River near Epping	43
Presumpscot River at outlet of Sebago Lake, near West Falmouth	105 106-114
Presumpscot River basin:	
gaging-station records in	105-114
Publication of streamflow records by Geological Survey	1
Radiochemical program definition of	8
Rangeley Lake, contents of	103
Reservoirs, see Lakes and Reservoirs	143
Richardson Lakes, contents of	103
Ripogenus Lake, contents of	60
Round Pond, contents of	60
Roxbury, Swift River near	90
Royal River at Yarmouth	104
Rumford, Androscoggin River at	89
Runoff in inches, definition of	6
Saco River at Cornish	118-120
Saco River near Conway, NH	115
Saco River basin:	
gaging-station records in	115-120
St. Croix River at Baring	33
at Milltown	34-41
at Vanceboro	31
St. Croix River basin:	
gaging-station records in	31-41
St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick	18
St. John River at Dickey	16
at Ninemile Bridge	14
at Van Buren	25-26
below Fish River at Fort Kent	24
St. John River basin:	
gaging-station records in	14-29
Salmon Falls River at Milton, NH	122
Sebasticook River near Pittsfield	67
Sebago Lake, Presumpscot River at outlet of	105
Sebec Lake, contents of	60
Second Lake, contents of	60
Sediment, definition of	6
Sheepscot River at North Whitefield	61
Solute, definition of	6
South Albion, Johnson Brook at	68
South Paris, Little Androscoggin River near	99
South Twin Lake, contents of	60
Specific conductance, definition of	6
Stage-discharge relation, definition of	6
Stations, location of	2
Station numbers	7
Streamflow, definition of	6
Surface area, definition of	7
Surficial bed material, definition of	7
Suspended, definition of	7
Suspended, total, definition of	7
Swift River near Roxbury	90
Telos Lake, contents of	60
Terms, definition of	3, 5-7
The Forks, Kennebec River at	63
Thompson Lake, contents of	103
Togus, Stream at Togus	81
Togus, Togus Stream at	81
Tons per day, definition of	7
Total, definition of	7
Total load, definition of	7
Total, recoverable, definition of	7
Turner Center, Nezinscot River at	91
Umbagog Lake, contents of	103
Van Buren, St. John River at	25-26
Vanceboro, St. Croix River at	31
Washburn, Aroostook River at	28
Washington County, ground-water levels in	139
Wells, description of	132-139
numbers of	8
water-level measurements in	132-139
Wentworth Location, N.H. Diamond River near	83
West Enfield, Penobscot River at	50
West Falmouth, Presumpscot River near	106-114
West Kennebunk, Mousam River near	121
Wild River at Gilead	86-88
Wilson Stream at East Wilson	66
Winthrop, Mill Stream at	78
WDR, definition of	7
WSP, definition of	7
Wyman Pond, contents of	82
Yarmouth, Royal River at	104

☆ U.S. GOVERNMENT PRINTING OFFICE:1965— 801-755

BEST COPY AVAILABLE

October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

BEST COPY AVAILABLE